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MATHEMATICAL CONSTANTS*

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ABSTRACT

This collection of mathematical data consists of two tables of decimal constants arranged according to size rather than function, a third table of integers from 1 to 1000, giving some of their properties, and a fourth table listing some infinite series arranged according to increasing size of the coefficients of the terms. The decimal values of Tables I and II are given to 20 D.

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MATHEMATICAL CONSTANTS

This unconventional table of mathematical constants is an accumulation of numbers collected in a card file over a period of years. The arrangement is not by function or class but in order of size. Tables I and II list decimal numbers and Table III the integers from 1 to 1000. Table IV is not really a list of constants, but mathematical functions expressible in power series, and arranged numerically according to the coefficients of the terms of the series expansion.

A brief description of the tables follows.

Table I

The numbers in this table are arranged in the order of the decimal part only. The values listed have not been selected according to any criterion, other than being true mathematical constants. Many are well known, others are obscure, and some have little reason to exist. The sources in many cases have been lost, but most of the numbers can be found in references 1-7.

The table can be used in at least two ways: 1) For improvement of the accuracy of a constant on hand, and 2) for possible identification of a number obtained by empirical or other means. It is, of course, necessary that the number be in the table, and for this reason a table a thousand times as large would be much more useful. For the most part the entries are given to 20D (decimals), and about half of them have been recomputed. Nearly all have been checked to 10 or 12D. If a number to be identified is not found in the tables, derived values can be sought, such as the reciprocal, the complement, logarithm, exponential, square, square root, etc.

Unfortunately it is inevitable that errors are present, especially in the last digit or two. It is hoped that the number of serious errors is

small, but the experience with errors in the original file indicates there will be some present.

The first entry in Table I was contributed by Prof. J. R. Woodyard. The last entry is one of a class of numbers studied by Ramanujan (6) and others.

Table II

After Table I was typed, it was thought worthwhile to include the roots of some common quadratic equations, and rather than retype the whole table, Table II was made listing these roots, together with a few other constants. The presence of an asterisk between two entries in Table I indicates that one or more numbers for this position will be found in Table II.

Table III

This table lists the integers from 1 to 1000, together with some of their properties. As in Table I, much of the data merely accumulated. It is intended, however, that the representation in terms of sums of two and three squares, sums of two and three cubes, and differences of squares and of cubes, be complete. Following the listing of a number, the corresponding binary form is given, and immediately below this is the ternary representation. The binary number consists of groups of three digits to facilitate conversion to the octal form.

A list of definitions of terms used precedes the table.

Table IV

In keeping with the inverted philosophy of this report, a short compilation of mathematical functions described by infinite power series is

presented. The arrangement is such that the coefficients of the terms of the power series must be known, and the corresponding function in closed form can then be found, if listed. The series is "normalized" in some sense, so that the first term is 1, and the entries are arranged in order of increasing magnitude of the coefficient for x. Where two or more series have the same first coefficient, the placement is determined by the coefficient of x^2 , etc. A decimal value of the coefficient as well as the exact value is given to facilitate look-up.

As an example, a listing for $\frac{1}{x} \ln(1 + x)$ is

1	1
-1/2	-0.50000 00000
1/3	0.33333 33333
-1/4	-0.25000 00000
.	.
.	.
.	.

The power series is then

$$1 - \frac{1}{2} x + \frac{1}{3} x^2 - \frac{1}{4} x^3 + \dots$$

The usual expression for $\ln(1 + x)$ has been divided by x to make the first term 1.

ACKNOWLEDGEMENT

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Table I

			Ref.
*	8 .00000 00729 00000 66339	987654321/123456789	
0	.00000 36616 84782 14444	$1/11^5 - 1/13^5 + 1/23^5 - 1/37^5 + 1/47^5 + \dots$	29
0	.00000 48481 36811 07637	$\sin 1''$	
0	.00000 48481 36811 09536	$\text{arc } 1'' = \pi/648000$	
0	.00001 15870 76344 31335	$1/5^7 - 1/7^7 + 1/17^7 - 1/19^7 + 1/29^7 - \dots$	30
0	.00001 16227 40795 01095	$1/5^7 - 1/7^7 + 1/11^7 - 1/13^7 + 1/17^7 - \dots$	28
0	.00007 33468 22546 94340	$\ln((1-1/2^6)(1-1/3^6)\zeta(6))$	8
1	.00015 51790 25296 11930	$\lambda(8) = 17\pi^8/161280$	8
0	.00019 35178 73414 00760	$-\log_{10} \beta(7)$	8
0	.00022 06747 08176 21317	$C_6 = (e^6 - 6e^4 + 3e^2 - 98)/32$	21
0	.00024 60562 78978 82383	$\ln \zeta(12) = \ln(691\pi^{12}/638512875)$	8
1	.00024 60865 53308 04830	$\zeta(12) = 691\pi^{12}/638512875$	8
0	.00026 08186 06750 04201	$1/5^5 - 1/7^5 + 1/17^5 - 1/19^5 + 1/29^5 - \dots$	30
0	.00026 44802 91532 18645	$1/5^5 - 1/7^5 + 1/11^5 - 1/13^5 + 1/17^5 - \dots$	28
0	.00029 08882 04563 42460	$\sin 1'$	
0	.00029 08882 08665 72160	$\text{arc } 1' = \pi/10800$	
1	.00035 14623 96784 52173	$20\sqrt{2}/9\pi$	
0	.00037 00961 82493 03593	$1/11^3 - 1/13^3 + 1/23^3 - 1/37^3 + 1/47^3 + \dots$	29
0	.00044 55913 70551 00264	$-\ln \beta(7) = \ln(184320/61\pi^7)$	8
1	.00044 56906 61132 88526	$1/\beta(7)$	8
0	.00044 56959 58934 00200	$1/3^7 - 1/5^7 + 1/7^7 + 1/11^7 - 1/13^7 - \dots$	25
1	.00047 15486 52376 55476	$\lambda(7)$	8
0	.00099 36035 74436 98022	$1/2^{10} + 1/3^{10} + 1/5^{10} + \dots$ all primes	7
0	.00099 40808 65669 06069	$\ln \zeta(10) = \ln(\pi^{10}/93555)$	8
1	.00099 45751 27818 08534	$\zeta(10) = \pi^{10}/93555$	8
0	.00104 01614 73295 85230	π^{-6}	
*	0 .00144 60306 34519 12236	$\ln \lambda(6) = \ln(\pi^6/960)$	8
1	.00144 70766 40942 12191	$\lambda(6) = \pi^6/960$	8
0	.00186 74427 31707 98881	$e^{-2\pi}$	
*	1 .00200 83928 26082 21442	$\zeta(9)$	8
1	.00237 93196 64510 04015	$(\pi \ln 2)/4 + \beta(2)/2 = -\int_0^{\pi/4} \ln \sin x \, dx$	8
0	.00247 87521 76666 35842	e^{-6}	
3	.00282 27186 51298 23248	$\sum_{n=1}^{\infty} n/a_n$	33
0	.00326 77636 43053 38547	π^{-5}	
0	.00377 93524 09848 90648	$E_1(4)$	9
20	.00380 69556 71514 12225	$2e^{9/2}/9$	
0	.00384 95720 26516 23083	$-\ln \beta(5) = \ln(1536/5\pi^5)$	8
0	.00385 80694 15480 66210	$1/3^5 - 1/5^5 + 1/7^5 + 1/11^5 - 1/13^5 - \dots$	25
0	.00406 14053 66517 83056	$1/2^8 + 1/3^8 + 1/5^8 + \dots$ all primes	7
0	.00406 90663 07412 95524	$\ln \zeta(8) = \ln(\pi^8/9450)$	8

(continued)

Table I (continued)

		Ref.
1 .00407 73561 97944 33938	$\zeta(8) = \pi^8/9450$	8
1 .00452 37627 95139 61613	$\lambda(5)$	8
0 .00468 28234 82345 83270	$-J_1(7)$ Bessel Function	
1 .00496 98233 13689 17109	$\coth 3$	
0 .00515 46593 86027 54554	$1/5^3 - 1/7^3 + 1/17^3 - 1/19^3 + 1/29^3 - \dots$	30
0 .00524 07046 77704 77115	$C_4 = (e^4 - 4e^2 - 25)/8$	21
0 .00552 47555 68520 58147	$1/5^3 - 1/7^3 + 1/11^3 - 1/13^3 + 1/17^3 - \dots$	28
0 .00586 80824 42208 61464	$-Y_2(10)$ Bessel Function	
2 .00590 88703 11503 41989	$\sum_{p=2}^{281} 1/p$ p = primes	
31 .00627 66802 99820 17548	π^3	
2 .00657 27096 19495 45000	$\sqrt{18} - \sqrt{5}$	
0 .00673 79469 99085 46710	e^{-5}	
0 .00676 07494 49488 55783	$5 - \ln(e^5 - 1)$	
0 .00782 41227 40795 01095	$1/2^7 + 1/5^7 - 1/7^7 + 1/11^7 - 1/13^7 + \dots$	24
1 .00803 43398 61824 80576	$\sqrt{20} - \sqrt{12}$	
* 1 .00834 92773 81922 82684	$\zeta(7)$	8
0 .00940 31597 25795 93812	$1/(120\Gamma(3/2))$	
4 .00951 72786 58040 16061	$\pi \ln 2 + 2\beta(2)$	8
2 .00960 65792 05064 09206	$\sqrt{14} - \sqrt{3}$	
2 .00994 35593 50565 80111	root of $x e^x = 15$	
0 .01001 43089 87235 70853	$\log_{10} \sqrt{\pi/3}$	
0 .01026 59822 54684 33519	π^{-4}	
0 .01176 19805 31389 12169	$e^{-\pi \sqrt{2}}$	
1 -.01219 70114 51334 18326	$\operatorname{arccot}(5/8)$	
0 .01304 83810 94197 03741	$E_1(3)$	9
5 .01325 65492 62001 00483	$\sqrt{8\pi}$	
1 .01356 73098 12608 46219	$\coth 2.5$	
1 .01379 37550 49703 28150	$\sqrt{37}/6$	
* 1 .01461 18723 54576 48886	$\sqrt{12} - \sqrt{6}$	
1 .01467 80316 04192 05455	$\lambda(4) = \pi^4/96$	8
2 .01556 44370 74637 41309	$\sqrt{65}/4$	
2 .01564 14779 55609 99654	$\psi(8) = 363/140 - \gamma$	10
0 .01570 79632 67948 96619	$\pi/200$	
0 .01582 17037 90686 1120*	$\ln((1-1/3^6) \zeta(6))$	8
35 .01672 51648 81512 42593	$-\operatorname{bei}(8)$ Bessel Function	
0 .01694 07393 25064 99190	$-Y_0(4)$ Bessel Function	
0 .01707 00868 50636 51295	$1/2^6 + 1/3^6 + 1/5^6 + \dots$ all primes	7
0 .01719 43876 02658 29097	$\ln \zeta(6) = \ln(\pi^6/945)$	8
1 .01734 30619 84449 13971	$\zeta(6) = \pi^6/945$	8
0 .01745 24064 37283 51282	$\sin 1^\circ$	

(continued)

Table I (continued)

		Ref.	
0	.01745 32925 19943 29577	$\pi/180$	
10	.01787 49274 09901 89897	$\sinh 3$	
0	.01826 31883 98172 13312	$3 - 5e E_1(1)$	9
0	.01831 56388 88734 18029	e^{-4}	
3	.01846 17127 12472 20886	$\sqrt{82/3}$	
0	.01848 54468 25886 56053	$4 - \ln(e^4 - 1)$	
*			
1	.01980 39027 18556 96601	$\sqrt{26/5}$	
0	.02040 81632 65306 12245	$1/49$	
1	.02100 83037 46349 36961	$3e^4/64\sqrt{2\pi}$	
0	.02190 38591 89707 73151	$d^2 F(1,x)/dx^2$ at $x = 4$	36
0	.02232 47396 09784 02451	$J_2(8.5)$ Bessel Function	
2	.02264 62122 16401 29462	$\sqrt{20} - \sqrt{6}$	
1	.02332 67079 46488 48848	$\sqrt{\pi/3}$	
0	.02340 36331 49156 67666	$22.5/\pi^6$	
0	.02450 82273 22900 39104	$7.5/\pi^5$	
7	.02481 47310 40726 39316	$\pi\sqrt{5}$	
2	.02513 46478 99099 92594	$e - \ln 2$	
10	.02529 07169 52038 83000	$\Gamma(1/2)$	44
1	.02545 31863 46250 67020	$e^{e-2}/2$	
0	.02594 97439 67209 26488	$-Y_0(7)$ Bessel Function	
0	.02607 36273 13983 38269	$315/4\pi^7$	
1	.02721 61538 31060 60514	$e^{-1} \sum_{n=0}^{\infty} 1/a_n$	33
1	.02740 23338 28162 74171	$\sqrt{38/6}$	
2	.02758 75100 99406 56300	$\sqrt{37/3}$	
1	.02808 37917 80141 52280	$5\pi^2/48$	
0	.02825 17642	C_3	21
2	.02875 78381 10434 22358	root of $\tan x = -x$	
0	.02908 88208 66572 15962	$\pi/108$	
0	.02919 95223 01288 72621	$-\cos(8/5)$	
1	.02986 65293 22258 82760	root of $2 \cos x = x$	
0	.02990 11002 72339 65471	$\pi^2/4 - 39/16$	
0	.03015 36896 07045 80797	$\sin^2 10^\circ$	
1	.03037 68265 24312 46379	$\operatorname{arccot}(0.6)$	
0	.03060 40234 58682 64131	$J_2(0.5)$ Bessel Function	
1	.03077 64064 04415 13746	$\sqrt{17/4}$	
0	.03079 79467 64053 00557	$3/\pi^4$	
2	.03100 96011 58990 09011	$\sqrt{66/4}$	
0	.03103 60859 75821 50452	$\ln(3^6 \sqrt{3/4\pi^5})$	
4	.03112 88741 49274 82618	$\sqrt{65/2}$	
1	.03141 30998 79573 17616	$\cosh 0.25$	

(continued)

Table I (continued)

		Ref.	
0	.03151 44802 91532 18645	$1/2^5 + 1/5^5 - 1/7^5 + 1/11^5 - 1/13^5 + \dots$	24
0	.03154 62452 51526 02466	$\ln(32/\pi^3)$	
1	.03172 35934 95771 08423	$F(1.25, 0.75)$	36
0	.03225 15344 33199 48918	π^{-3}	
0	.03225 24738 33502 52743	$1/3^3 - 1/5^3 + 1/7^3 + 1/11^3 - 1/13^3 - \dots$	25
0	.03225 80645 16129 03226	$1/31$	
0	.03226 36616 68246 96184	$\arcsin(1/31)$	
0	.03319 79733 70850 50489	$315/\pi^8$	
0	.03333 95092 61302 08699	$\arcsin(1/30)$	
4	.03375 50445 95465 78827	root of $e^x = 14x$ (other is 0.07715 ...)	
0	.03391 82745 31521 15548	$5/(e^5 - 1)$	
0	.03392 21571 52552 19907	$7 \zeta(3)/8\pi^3$	8
0	.03448 27586 20689 65517	$1/29$	
0	.03448 95959 61678 82768	$\arcsin(1/29)$	
2	.03509 03305 72526 02103	$\sqrt{\pi+1}$	
0	.03520 45477 24194 30287	$\log_{10}(e/\sqrt{2\pi})$	
1	.03527 61804 10083 04940	$\sqrt{6} - \sqrt{2} = \sec 15^\circ$	
0	.03539 81633 97448 30962	$(\pi-3)/4$	
0	.03571 42857 14285 71429	$1/28$	
0	.03572 18823 98078 79542	$\arcsin(1/28)$	
0	.03574 87979 72016 50932	$\sin 10^5$	
0	.03577 16629 52898 77341	$-\tan 10^5$	
0	.03648 99739 78576 52056	$\psi(3/2) = 2 - \gamma - 2 \ln 2$	10
3	.03658 89718 75662 51942	$28^{1/3}$	
3	.03681 11930 48099 62732	$\sqrt{83}/3$	
1	.03692 77551 43369 92633	$\zeta(5)$	8
0	.03703 70370 37037 03704	$1/27$	
0	.03704 55098 12092 00910	$\arcsin(1/27)$	
1	.03731 47207 27548 09588	$(e^4 + 1)/(e^4 - 1) = \coth 2$	
1	.03735 82538 87398 97373	$1 + 1/3^3 + 1/5^5 + 1/7^7 + 1/9^9 + \dots$	
0	.03846 15384 61538 46154	$1/26$	
0	.03847 10274 07328 32236	$\arcsin(1/26)$	
137	.03859 00552 68928 04595	e^u	43
0	.03909 39721 63597 15067	$1 - 2(\ln 2)^2$	
1	.03923 04845 41326 37612	$\sqrt{27}/5$	
0	.04001 06743 53988 92622	$\arcsin(1/25)$	
0	.04013 58232 65404 71917	$d^2 F(1,x)/dx^2$ at $x = 3$	36
1	.04065 18522 56408 31541	$e/(e-1) - \ln(e-1)$	
0	.04067 90239 81009 71331	$5e^5/(e^5-1) - \ln(e^5-1)$	
1	.04083 29997 33066 36764	$\sqrt{39}/6$	

(continued)

Table I (continued)

		Ref.	
3	.04138 12651 49109 84450	$\sqrt{37}/2$	
0	.04166 66666 66666 66667	1/24	
0	.04167 87324 22577 86519	$\arcsin(1/24)$	
0	.04193 92518 42934 50355	$J_0(8.5)$ Bessel Function	
1	.04227 41531 85273 70312	$\sqrt{19} - \sqrt{11}$	
0	.04238 71012 40411 60909	$0.25 \ln 2 - \pi/24$	
0	.04321 39182 63772 24977	$e^{-\pi}$	
0	.04321 39182 64297 79829	$(2^{1/4} - 1)\Gamma(1/4)/(2^{11/4} \pi^{3/4})$	
0	.04347 27461 68861 43667	$J_1(10)$ Bessel Function	
0	.04347 82608 69565 21739	1/23	
0	.04349 19707 90115 81902	$\arcsin(1/23)$	
0	.04452 52672 66922 90615	π^{-e}	
1	.04455 62214 61226 78758	$\sqrt{15} - \sqrt{8}$	
0	.04537 14377 29180 28346	$Y_2(3.5)$ Bessel Function	
0	.04545 45454 54545 45455	1/22	
0	*.04547 02124 16997 15229	$\arcsin(1/22)$	
2	.04633 81929 68112 49249	$\sqrt{67}/4$	
0	.04656 51162 77752 21553	$J_2(5)$ Bessel Function	
1	.04719 75511 96597 74615	$\pi/3 = \arccos(0.5)$	
0	.04755 25940 63435 71990	$2835/2\pi^9$	
0	.04761 90476 19047 61905	1/21	
0	.04763 70626 24403 13071	$\arcsin(1/21)$	
0	*.04767 23086 00129 37473	root of $20x e^x = 1$	
0	.04837 73016 49799 23378	$3/2\pi^3$	
0	.04838 37764 68197 99633	$-J_0(2.5)$ Bessel Function	
0	.04890 05107 08061 11957	$E_1(2)$	9
1	.04951 82985 67532 98405	$((\sqrt{5}-1)/2)[1, 1, 2, 3, 5, \dots]$	15,31
0	.04978 70683 67863 94298	e^{-3}	
2	.04988 80527 64659 53825	$\sqrt{12} - \sqrt{2}$	
1	.04990 88949 64039 95999	root of $x e^x = 3$	
0	.05002 08568 05770 01466	$\arcsin(1/20)$	
6	.05020 44810 39787 32145	$\sinh 2.5$	
0	.05025 38471 87598 52803	$e^{-100} \int_0^{10} e^{t^2} dt$	35
2	.05090 63726 92501 34038	e^{e-2}	
0	.05106 91809 42701 58654	$3 - \ln(e^3 - 1)$	
1	.05119 11502 99520 46625	$F(1,1,1)$	36
1	.05179 97902 64644 99972	$\lambda(3)$	8
0	.05233 59562 42943 83272	$\sin 3^\circ$	40
0	.05263 15789 47368 42105	1/19	
0	.05265 59082 61569 79146	$\arcsin(1/19)$	

(continued)

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Table I (continued)

		Ref.
1 .05409 25533 89459 77733	$\sqrt{10}/3$	
2 .05480 46676 56325 48342	$\sqrt{38}/3$	
3 .05505 04633 03893 33773	$\sqrt{84}/3$	
0 .05515 89000 38162 89835	$(\ln 2)/4\pi$	
1 .05517 30266 91477 16514	$(\sum_{n=0}^{\infty} 1/a_n)^2/e^2$	33
* 0 .05555 55555 55555 55556	1/18	
0 .05558 41732 80917 47610	$\arcsin(1/18)$	
0 .05567 11672 83599 39142	$Y_0(10)$ Bessel Function	
0 .05590 50467 24350 46070	$e^{-81} \int_0^9 e^{t^2} dt$	35
0 .05685 28194 40054 69058	$0.75 - \ln 2$	
1 .05725 08753 75728 51457	$\text{Shi}(1)$	9
5 .05760 72413 02006 70528	$(1-2(\ln 2)^2)^{-1/2} = f(1)$	44
3 .05792 23926 26484 34402	$\sqrt{20} - \sqrt{2}$	
2 .05817 10272 71492 25032	$\tau^{3/2} \quad \tau = (1+\sqrt{5})/2$	
1 .05830 05244 25836 23620	$\sqrt{28}/5$	
0 .05882 35294 11764 70588	1/17	
0 .05885 75059 47081 23021	$\arcsin(1/17)$	
0 .05936 57483 65390 82147	$\pi/8 - 1/3$	
2 .06004 27171 06145 23381	$\ln 2/(\ln 7 - \ln 5)$	
0 .06052 66094 68272 12656	$-Y_2(7)$ Bessel Function	
1 .06066 01717 79821 28660	$\sqrt{18}/4$	
2 .06155 28128 08830 27491	$\sqrt{17}/2$	
4 .06201 92023 17980 18023	$\sqrt{66}/2$	
10 .06230 58987 49053 63384	$4.5\sqrt{5}$	
0 .06254 07617 96491 39080	$\arcsin(1/16)$	
0 .06262 00213 31516 10417	root of $15x e^x = 1$	
1 .06269 35403 83213 93057	$\pi^2/12 + (\ln 2)^2/2$	
0 .06300 01987 07553 38792	$e^{-64} \int_0^8 e^{t^2} dt$	35
0 .06451 61290 32258 06452	2/31	
1 .06473 41710 43503 37039	$1 + 1/3^2 - 1/5^2 - 1/7^2 + 1/9^2 + \dots$	
1 .06543 58165 10739 31226	$\arcsin(7/8)$	
* 0 .06598 80358 45312 53708	e^{-e}	
0 .06604 33280 23549 13614	$-J_1(4)$ Bessel Function	
2 .06636 56770 61246 46923	$\sqrt{\pi e}/2$	
3 .06642 13450 69269 41241	root of $e^x = 7x$ (other is 0.16919 ...)	
1 .06659 28333 20625 73520	root of $4x^3 + 3x^2 - 4x - 4 = 0$	
0 .06666 66666 66666 66667	1/15	
0 .06671 61484 10225 25955	$\arcsin(1/15)$	
1 .06718 73729 05474 78108	$\sqrt{41}/6$	
10 .06766 19957 77765 84195	$\cosh 3$	

(continued)

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Table I (continued)

			Ref.
0	*.06790 47747 38901 47543	$4072 - e^{\pi\sqrt{7}}$	
1	.06838 14176 82192 74971	$\Gamma(\pi-1)$	
0	.06842 18119 62487 50966	$(1/6 + \ln 2)/4\pi$	
0	*.06896 55172 41379 31034	$2/29$	
0	*.07014 84232 81097 33963	$1/5 - 1/7 + 1/17 - 1/19 + 1/29 - \dots$	30
0	*.07073 72016 67702 91009	$\cos(3/2)$	
3	.07074 10176 72505 97006	$2(1 + 1/3 + 1/8 + 1/21 + \dots)$	31
0	.07142 85714 28571 42857	$1/14$	
0	.07148 94498 85520 53454	$\arcsin(1/14)$	
0	.07160 74067 44997 82619	root of $13x e^x = 1$	
0	.07161 61978 80353 23702	root of $e^x = 15x$ (other is 4.12515 ...)	
0	.07179 64152 47729 07067	$1/11 - 1/13 + 1/23 - 1/37 + 1/47 + \dots$	29
0	.07218 09746 58236 29203	$e^{-49} \int_0^7 e^{t^2} dt$	35
3	.07231 68256 85847 29331	$29^{1/3}$	
3	.07318 14857 64295 77000	$\sqrt{85}/3$	
0	.07345 97924 69070 78119	$\pi^2(2-\sqrt{3})/36$	
2	.07434 07586 04670 80468	root of $x^3 + x - 11 = 0$	
0	.07462 94414 55096 19176	$4/(e^4-1)$	
0	*.07568 23040 20381 11983	$14175/2\pi^{10}$	
0	.07581 63324 64079 17795	$1/(8\sqrt{e})$	
5	.07657 72741 92692 51484	[5, 13, 17, ...]	15,26
2	*.07665 59657 29518 71315	$\sqrt{69}/4$	
0	.07692 30769 23076 92308	$1/13$	
0	.07699 31397 64246 84494	$1/2^4 + 1/3^4 + 1/5^4 + \dots$ all primes	7
0	.07699 91406 56823 57963	$\arcsin(1/13)$	
1	.07703 29614 26900 80625	$\sqrt{29}/5$	
0	.07715 80570 07321 58419	root of $e^x = 14x$ (other is 4.03375 ...)	
0	.07753 63592 05833 59788	$2 \zeta(3)/\pi^3$	8
0	.07786 29911 04210 88312	$1 - \sqrt{2\pi}/e$	
0	.07910 98730 67335 62977	$\ln(\pi^4/90) = \ln \zeta(4)$	8
137	.07914 48035 57324 90797	$e^7/8$	
2	.07944 15416 79835 92825	$\ln 8$	
2	*.08008 38230 51904 11453	$9^{1/3}$	
1	.08012 34497 34643 37183	$\sqrt{42}/6$	
1	.08036 30269 50905 81441	$\sqrt{18} - \sqrt{10}$	
1	*.08055 68128 55610 15271	$\sqrt{11} - \sqrt{5}$	
0	*.08099 56485 11016 84211	$2 - 8\sqrt{\pi}/e^2$	
2	.08166 59994 66132 73528	$\sqrt{39}/3$	
3	.08220 70014 84488 22513	$\sqrt{38}/2$	
1	.08232 32337 11138 19152	$\zeta(4) = \pi^4/90$	8

(continued)

-12-
Table I (continued)

			Ref.	
0	.08263	46164	$1/5 - 1/7 + 1/11 - 1/13 + 1/17 - 1/19 \dots$ twin primes	
1	.08268	22658 92901 53515	$8/e^2$	
6	.08276	25302 98219 68900	$\sqrt{37}$	
4	.08298	81650 73596 56826	$\coth 0.25$	
0	.08333	33333 33333 33333	$1/12$	
0	.08343	00866 10615 00487	$\arcsin (1/12)$	
0	.08363	30677 62716 16142	root of $e^x = 13x$ (other is 3.93481 ...)	
0	.08440	11210 20485 55596	$-\ln \Gamma (7/4)$	
1	.08443	75514 19227 54661	$e/\sqrt{2\pi}$	
0	.08454	26889 74543 85224	$e^{-36} \int_0^6 e^{t^2} dt$	35
0	.08490	23721 18800 88669	$d^2 F(1,x)/dx^2$ at $x = 2$	36
1	.08507	02454 91450 82834	root of $x^9 - x - 1 = 0$	
20	.08553	69231 87667 74093	e^3	
1	.08586	08797 86472 16963	$-\psi(3/4) = \gamma + 3 \ln 2 - \pi/2$	10
3	.08616	12696 30487 55696	$e + 1/e$	
2	.08674	53398 82666 38358	root of $x^3 - x - 7 = 0$	
0	.08695	65217 39130 43478	$2/23$	
10	.08696	95386 97535 86849	$F(-2,3)$	36
2	.08706	52286 34532 95984	$e^{2/e}$	
1	.08764	73242 38098 31168	$d^2((1+x)F(1,x))/dx^2$ at $x = -1$	36
0	.08777	64759 55337 26606	$-\ln \beta(2)$	8
1	.08806	52521 31017 30810	$1/\Gamma (7/4)$	
0	.08825	69642 15676 95798	$Y_0(1)$ Bessel Function	
1	.08972	47358 85168 38806	$\sqrt{19}/4$	
11	.09016	99437 49474 24102	$\tau^5 = 11/2 + 5\sqrt{5}/2$	
0	.09033	36111 82876 13434	$-J_0(9)$ Bessel Function	
0	.09058	60737 06079 54970	$\pi/6 - \sqrt{3}/4$	
0	.09090	90909 09090 90909	$1/11$	
0	.09103	47780 37415 08548	$\arcsin (1/11)$	
3	.09120	61651 65234 58417	$\sqrt{86}/3$	
0	.09127	65271 60862 26430	root of $10x e^x = 1$	
0	.09129	97831 38239 22852	root of $e^x = 12x$ (other is 3.82698 ...)	
2	.09165	00663 35188 86995	$\sqrt{70}/4$	
0	.09223	51943 62580 96550	$\ln((1-1/2^2)(1-1/3^2)\zeta(2)) = \ln(\pi^2/9)$	8
4	.09267	63859 36224 98498	$\sqrt{67}/2$	
1	.09290	64207 17000 10872	$\sqrt{43}/6$	
0	.09311	48882 80982 75228	$4e^4/(e^4-1) - \ln(e^4-1)$	
20	.09321	18256 97226 39044	$\text{Sh1}(5)$	9
0	.09403	15972 57959 38116	$1/12\Gamma(3/2)$	
9	.09450	88529 84436 96726	$1 + 1/2 + 1/3 + \dots 1/5000$	

(continued)

Table I (continued)

			Ref.	
2 .09455	14815	42326 59148	root of $x^3 - 2x - 5 = 0$	
0 .09523	80952	38095 23810	2/21	
1 .09544	51150	10332 22691	$\sqrt{30}/5$	
3 .09564	52652	46946 75228	$5e^{8/5}/8$	
0 .09566	02830	64045 37638	root of $19x e^x = 2$	
1 .09590	60757	09350 79508	$\sqrt{14} - \sqrt{7}$	
3 .09614	73055	87150 96170	$96/\pi^3$	
* 1 .09637	63171	77312 80408	$\sqrt{8} - \sqrt{3}$	
1 .09662	27112	32150 95765	$\pi^2/9$	
0 .09677	41935	48387 09677	3/31	
1 .09698	15577	98559 81791	root of $x^8 - x - 1 = 0$	
* 0 .09827	18364	21813 16146	$-\ln \Gamma(5/4)$	
1 .09861	22886	68109 69140	$\ln 3$	
5 .09901	95135	92784 83003	$\sqrt{26}$	
2 .09903	65971	35065 96810	$(\sqrt{5}-1)[1, 1, 2, 3, 5, 8, \dots]$	15,31
0 .09950	53426	87387 83482	root of $\cos x = 10x$	
0 .09966	86524	91162 02738	$\arctan 0.1$	
0 .09983	34166	46828 15231	$\sin 0.1$	
7 .10000	05832	00047 82240	87654321/12345678	
0 .10009	94575	12781 80853	$\zeta(10)/10 = \pi^{10}/935550$	8
0 .10016	74211	61559 79635	$\arcsin 0.1$	
0 .10048	84003	37317 06730	root of $9x e^x = 1$	
0 .10052	26031	67572 83208	root of $e^x = 11x$ (other is 3.70853 ...)	
* 0 .10132	11836	42337 77144	π^{-2}	
* 0 .10213	40744	24276 83544	$e^{-25} \int_0^5 e^{t^2} dt$	35
0 .10231	48329	60640 81330	$-\ln \Gamma(5/3)$	
* 1 .10326	26513	20837 25744	$1/\Gamma(5/4)$	
0 .10344	82758	62068 96552	3/29	
0 .10352	76180	41008 30494	$(\sqrt{6} - \sqrt{2})/10$	
2 .10380	34027	35536 53316	root of $x^3 - 3x - 3 = 0$	
0 .10431	45751	96715 88765	$Y_1(9)$ Bessel Function	
* 0 .10452	84632	67653 47140	$\sin 6^\circ = (\sqrt{30-6\sqrt{5}} - \sqrt{5} - 1)/8 \dots$	
1 .10455	48073	72182 34290	$F(1,1.2)$	36
1 .10479	13929	82511 90394	$\coth 1.5$	
* 0 .10510	42352	65676 46251	$\tan 6^\circ = (\sqrt{3} + \sqrt{10-2\sqrt{5}} - \sqrt{15})/2$	
0 .10526	31578	94736 84211	2/19	
1 .10554	15967	85133 28304	$\sqrt{11}/3$	
* 0 .10583	24004	55335 31104	root of $17x e^x = 2$	
3 .10583	62368	81219 73406	$10^5 - 31830\pi$	
0 .10587	45108	23706 98624	root of $e^x = 10.5x$ (other is 3.64463 ...)	

(continued)

Table I (continued)

				Ref.
*	3	.10628 37195 02643 63832	$\ln 2/(\ln 5 - \ln 4)$	
	2	.10653 74432 94089 65766	$\sqrt{71}/4$	
	0	.10703 24315 40937 54689	$-Y_1(2)$ Bessel Function	
	0	.10714 28571 42857 14286	$3/28$	
	1	.10714 87177 94090 50302	$\operatorname{arccot} 0.5$	
	3	.10723 25059 53858 86688	$30^{1/3}$	
*	1	.10773 21674 32472 46940	$1/\Gamma(5/3)$	
	2	.10818 51067 78919 55467	$\sqrt{40}/3$	
*	0	.10885 75528 78545 05540	root of $2x + 2 + \ln x = 0$	
	6	.10905 13237 07206 58159	$\sqrt{5} + \sqrt{15}$	
	3	.10912 63510 29605 01518	$\sqrt{87}/3$	
*	1	.11029 66792 61921 90841	[1, 9, 15, 21, ...] odd nonprimes	15
	0	.11043 42591 12236 27834	root of $\cos x = 9x$	
	0	.11043 97399 56260 61377	$\sqrt{21} - \sqrt{20}$	
	1	.11051 05035 81112 12897	root of $\cos x = 0.4x$	
	4	.11061 98681 99447 24832	[4, 9, 25, ...] squares of primes	15
	1	.11072 07345 39591 56175	$\pi/\sqrt{8}$	
	0	.11133 42658 69564 69049	$\zeta(9)/9$	
	0	.11134 10143 40963 89232	$\arcsin(1/9)$	
	0	.11178 01089 32788 50682	root of $8x e^x = 1$	
	0	.11183 25591 58962 96483	root of $e^x = 10x$ (other is 3.57715 ...)	
	0	.11248 75124 87512 48751	563/5005	
*	1	.11277 56842 78705 47063	root of $x^7 - x - 1 = 0$	
	1	.11283 57888 98764 24838	$2\Gamma(5/4)/(\sqrt{\pi} \Gamma(7/4))$	
	0	.11299 17204 24075 25000	$-J_2(8)$ Bessel Function	
	0	.11319 16417 40342 62221	$-\ln \Gamma(4/3)$	
	0	.11323 70114 58905 84058	$\sqrt{20} - \sqrt{19}$	
	1	.11355 28725 66004 38442	$\sqrt{31}/5$	
*	0	.11490 34849 31900 48047	$J_2(1)$ Bessel Function	
	0	.11538 46153 84615 38462	$3/26$	
	3	.11554 49575 61439 71592	$\cot 10000$	
*	0	.11593 15156 58412 44881	$\ln 2 - \gamma$	10
	4	.11594 11448 74045 21871	$(\sqrt{15} + \sqrt{19})/2$	
	0	.11603 43815 50200 37810	$\operatorname{bei}(5)$ Bessel Function	
	0	.11625 82564 21388 40558	$\sqrt{19} - \sqrt{18}$	
*	0	.11685 02750 68084 91368	$(\pi^2 - 8)/16$	
*	0	.11731 54816 47287 47597	$-J_2(5.5)$ Bessel Function	
	0	.11764 70588 23529 41176	$2/17$	
	1	.11803 39887 49894 84820	$\sqrt{5}/2$	
	0	.11844 06094 63380 93280	root of $15x e^x = 2$	

(continued)

Table I (continued)

		Ref.	
0	*.11850 67915 94974 55771	root of $e^x = 9.5x$ (other is 3.50567 ...)	
1	.11951 51349 20247 62854	$(\pi/2)^{1/4}$	
0	*.11953 50615 01624 59658	$\sqrt{18} - \sqrt{17}$	
2	.11967 74846 03224 30239	$H(1,3)$	38
1	.11976 95149 98634 18669	$\arcsin 0.9$	
1	.11984 65217 22185 68498	$1/\Gamma(4/3)$	
0	.12044 21323 01017 64656	$\sum_{n=0}^{\infty} (-1)^n / (n!)^3$	
6	.12125 04668 98068 30129	root of $x \tan x + 1 = 0$	
2	.12132 03435 59642 57320	$\sqrt{18}/2$	
1	*.12246 20483 09372 98143	$2^{1/6}$	
3	.12249 89991 99199 10292	$\sqrt{39}/2$	
2	.12283 09660 40883 85583	$\sqrt{19} - \sqrt{5}$	
4	.12310 56256 17660 54982	$\sqrt{17}$	
0	.12327 12803 38402 47001	$\ln(81\sqrt{3}/4\pi^3)$	
0	.12403 96181 24590 68008	root of $\cos x = 8x$	
0	.12435 49945 46761 43503	$\arctan(1/8)$	
4	.12515 34106 60444 24332	root of $e^x = 15x$ (other is 0.07161 ...)	
0	.12532 78311 68065 39687	$\arcsin(1/8)$	
0	.12550 96695 24743 04242	$\zeta(8)/8 = \pi^8/75600$	8
0	.12566 37061 43591 72954	$\pi/25$	
15	.12570 06123 90968 77628	$1.5^3 e^{1.5}$	
0	.12595 11328 36175 57162	root of $7x e^x = 1$	
0	.12603 58732 69156 04807	root of $e^x = 9x$ (other is 3.42969 ...)	
4	.12689 43739 83084 33693	$F(3,5)$	36
3	.12694 38398 82286 36971	$\sqrt{88}/3$	
0	.12701 66537 92583 11482	$4 - \sqrt{15}$	
1	.12762 59652 06380 78523	$\cosh 0.5$	
1	.12837 91670 95512 57390	$2/\sqrt{\pi}$	
3	.12891 02354 58700 51258	$(\Gamma(1/4))^4 / e^{\gamma} \pi^3$	10
0	.12903 22580 64516 12903	$4/31$	
1	*.12917 38854 50141 23991	$1/\Gamma(x)$ at minimum of $\Gamma(x)$ ($x = 1.46163\dots$)	
2	.12927 94550 94817 49683	$\sinh 1.5$	
0	.12933 98281 53178 25018	$\pi^{-1} \sum_{n=1}^{\infty} n(-1)^{n+1}/e_n$	33
0	.12934 80012 36005 11559	$e^{-16} \int_0^4 e^{-x^2} dx$	35
2	.12937 24827 60156 69638	root of $x^x = 5$	
2	.12970 25489 83306 41813	$\sum_{n=0}^{\infty} (n!)^{-3}$	
1	.13038 83305 20878 02318	$\sqrt{46}/6$	
0	.13043 47826 08695 65217	$3/23$	
0	*.13052 47555 68520 58147	$1/2^3 + 1/5^3 - 1/7^3 + 1/11^3 - 1/13^3 + \dots$	24
0	.13089 96938 99574 71827	$\pi/24$	

(continued)

Table I (continued)

		Ref.
0 .13132 59594 33475 49960	$\sqrt{15} - \sqrt{14}$	
1 .13137 08498 98476 03904	$\sqrt{32}/5$	
1 .13196 57466 21704 26643	$F(0.5, 1.5)$	36
3 .13226 54505 40420 10683	root of $e^x - 7x - 1 = 0$	
6 .13228 94796 63686 11662	cosh 2.5	
0 .13249 73406 83700 06575	$2(11)! / (2\pi)^{11} = 155925/4\pi^{11}$	
0 .13429 06875 02502 74970	$1/\sqrt{5\tau^5} = (5(5\tau + 3))^{-1/2}$ $\tau = (1 + \sqrt{5})/2$	
2 .13437 47458 10949 56216	$\sqrt{41}/3$	
0 .13448 68295 31580 50875	root of $13x e^x = 2$	
0 .13459 71534 75787 79390	root of $e^x = 8.5x$ (other is 3.34861 ...)	
1 .13472 41384 01519 49261	root of $x^6 - x - 1 = 0$	
0 .13493 41839 94670 64347	$\log_{10}(\pi \log_{10} e)$	
0 .13533 52832 36612 69189	$1/e^2$	
2 .13600 09363 29382 79197	$\sqrt{73}/4$	
0 .13610 61113 09952 09246	$\sqrt{14} - \sqrt{13}$	
0 .13659 09849 38686 66254	$\pi/23$	
0 .13737 75273 62327 18572	$J_1(3.5)$ Bessel Function	
0 .13762 02720 90920 11159	root of $16x^3 + 7x^2 + 6x - 1 = 0$	
0 .13793 10344 82758 62069	$4/29$	
23 .14069 26327 79269 00573	e^π	
2 .14093 25386 38539 59165	$\sqrt{15} - \sqrt{3}$	
3 .14103 42316 36934 24536	[3, 7, 11, 19, ...]	15,27
7 .14142 84285 42849 99800	$\sqrt{51}$	
0 .14143 07614 07572 83596	root of $\cos x = 7x$	
0 .14144 96603 26234 70606	$\sqrt{13} - \sqrt{12}$	
3 .14159 26525 82646 12521	$(9^2 + 19^2/22)^{1/4}$	6
3 .14159 26535 89793 23846	π	
3 .14164 07864 99873 81785	$1.8 + \sqrt{1.8}$	6
0 .14194 48385 28826 41030	$1/5 - 1/7 + 1/11 - 1/13 + 1/17 - \dots$	28
1 .14260 91000 66840 68749	$\sqrt{47}/6$	
0 .14279 96660 72263 32902	$\pi/22$	
0 .14285 71428 57142 85714	$1/7$	
0 .14334 75689 05365 35760	$\arcsin(1/7)$	
2 .14404 04325 27045 56207	root of $x^3 + x - 12 = 0$	
0 .14404 98967 68846 11812	$\zeta(7)/7$	
0 .14427 49507 20886 22350	root of $6x e^x = 1$	
0 .14442 13531 37509 72917	root of $e^x = 8x$ (other is 3.26168 ...)	
3 .14466 03773 52201 27044	$\sqrt{89}/3$	
1 .14471 42425 53331 86781	$1.5^{1/3}$	
1 .14472 98858 49400 17414	$\ln \pi$	

(continued)

Table I (continued)

				Ref.	
0	.14484	73415	32503 97263	$J_2(9)$ Bessel Function	
2	.14502	93971	11025 60008	$\pi^{2/3}$	
13	.14504	72065	96874 41286	$\Gamma^2(1/4)$	
0	.14541	34578	69471 74887	$2 - \ln(e^2 - 1)$	
1	.14562	79952	07260 29079	$\pi(0.5 - e^{-2})$	
1	.14564	39237	38960 00165	$\sqrt{21}/4$	
0	.14591	81379	66785 79888	$Y_1(2.5)$ Bessel Function	
3	.14626	43699	41972 34233	$\sqrt{2} + \sqrt{3}$	
0	.14747	68247	82354 73794	$\sqrt{12} - \sqrt{11}$	
0	.14786	31433	91226 84480	$Y_1(5)$ Bessel Function	
2	.14811	24370	17298 29356	$r(2.5)$	44
1	.14891	25293	07605 73197	$\sqrt{33}/5$	
0	.14899	92965	12508 59506	root of $3x \ln x = x - 1$	
0	.14959	96501	70942 53516	$\pi/21$	
1	.15018	81196	97404 52439	$(1 - 1/2 + 1/3 - 1/5 \dots)(1 + \sqrt{5})/2$	31
2	.15058	13167	60656 69293	$\sqrt{74}/4$	
0	.15064	52572	50996 93166	$J_0(6)$ Bessel Function	
1	.15091	10843	35942 61205	root of $x^3 + x^2 + x - 4 = 0$	
1	.15145	38467	93758 50553	$7\pi^2/60$	
17	.15278	97082	68945 09576	$(\pi+1)^2$	
2	.15329	23641	10349 64917	root of $e^x = 4x$ (other is 0.35740 ...)	
4	.15331	19314	59037 42629	$\sqrt{69}/2$	
0	.15342	64097	20027 34529	$(1 - \ln 2)/2$	
0	.15384	61538	46153 84615	$2/13$	
1	.15417	14951	81441 26737	root of $x^3 + 3x - 5 = 0$	
15	.15426	22414	79264 18976	e^e	
0	.15434	71301	87020 51712	$\sqrt{11} - \sqrt{10}$	
2	.15443	46900	31883 72176	$10^{1/3}$	
1	.15470	05383	79251 52902	$\sqrt{12}/3$	
1	.15551	11646	44179 54370	$\sqrt{20} - \sqrt{11}$	
0	.15561	59666	74500 43057	root of $11x e^x = 2$	
1	.15572	73497	90921 71791	π/e	
0	.15581	46036	00899 35455	root of $e^x = 7.5x$ (other is 3.16800 ...)	
1	.15606	15326	80811 19492	$\sqrt{13} - \sqrt{6}$	
0	.15643	44650	40230 86901	$\sin 9^\circ = (\sqrt{2} + \sqrt{10} - 2\sqrt{5} - \sqrt{5})/8$	
0	.15651	76427	49665 65182	$1/(e^2 - 1)$	
0	.15707	96326	79489 66192	$\pi/20$	
0	.15718	70894	73767 85592	$3/(e^3 - 1)$	
2	.15735	38153	60895 79634	$-\cot 10^\circ$	
0	.15789	47368	42105 26316	$3/19$	

(continued)

Table I (continued)

				Ref.
0	.15806	04617 31247 49426	$-Y_1(8)$ Bessel Function	
0	.15838	44403 24536 29384	$\tan 9^\circ = (1 - \sqrt{5-2\sqrt{5}})/(1 + \sqrt{5-2\sqrt{5}})$	
2	.15879	89303 42464 17048	$\pi/2 + \arctan(2/3)$	
0	.15917	45389 54861 59239	$-\log_{10} \ln 2$	
1	.15927	94807 27408 59985	$\arccos 0.4$	
0	.16015	46947 96271 67625	$\int_0^\infty e^{-x^2}/(x+5) dx$	
2	.16024	68994 69286 74366	$\sqrt{42}/3$	
0	.16040	03934 84923 72968	$-Y_2(3)$ Bessel Function	
0	.16129	03225 80645 16129	5/31	
3	.16227	76601 68379 33200	$\sqrt{10}$	
4	.16331	04709 41149 34620	[4, 6, 8, 9, ...] terms are all composite numbers	15
0	.16379	04086 54136 00439	$6 - 3^3 e^{-3\sqrt{6\pi}}$	
2	.16395	34137 38652 28488	$\coth 0.5$	
6	.16441	40029 68976 45025	$\sqrt{38}$	
0	.16441	89382 60431 11595	root of $\cos x = 6x$	
2	.16506	35094 61096 61691	$\sqrt{75}/4$	
0	.16510	65507 26312 65311	$(\sum_{n=1}^{\infty} (-1)^{n+1} \cdot n/a_n)^2$	33
0	.16534	69817 67883 85466	$\pi/19$	
1	.16556	11852 07211 30683	root of $\tan x = 2x$	
1	.16619	03789 69060 09417	$\sqrt{34}/5$	
2	.16631	27473 97789 02222	root of $x^3 - x - 8 = 0$	
1	.16659	52148 85386 52773	$2(14)!/(2\pi)^{14}$	
0	.16666	66666 66666 66667	1/6	
1	.16730	39782 61418 68426	root of $x^5 - x - 1 = 0$	
0	.16744	80792 19689 33055	$\arcsin(1/6)$	
3	.16800	51063 44226 85819	root of $e^x = 7.5x$ (other is 0.15581 ...)	
*	0	.16891 59734 99109 56512	root of $5x e^x = 1$	
0	.16919	26038 56225 10297	root of $e^x = 7x$ (other is 3.06642 ...)	
0	.16955	71769 97408 18995	$\zeta(6)/6 = \pi^6/5670$	8
1	.17012	09500 02626 05371	root of $3 \cos x = x$	
0	.17074	18220 04801 41406	$25e^5/(e^5-1)^2$	
*	26	.17138 88922 76760 09057	$3 \cdot 5 \cdot 7 \cdot 9 \sqrt{\pi}/64$	
0	.17157	28752 53809 90240	$3 - \sqrt{8}$	
0	.17165	08071 37553 90609	$J_0(8)$ Bessel Function	
3	.17221	89581 25450 52773	$e^{2\gamma}$	10
0	.17241	37931 03448 27586	5/29	
1	.17260	39399 55857 38864	$\sqrt{22}/4$	
*	0	.17364 81776 66930 34885	$\sin 10^\circ = \text{root of } 8x^3 - 6x + 1 = 0$	
0	.17391	30434 78260 86957	4/23	
0	.17453	29251 99432 95769	$\pi/18$	

(continued)

Table I (continued)

			Ref.
*	0 .17501 03443 00398 25064	$-Y_1(6)$ Bessel Function	
	1 .17520 11936 43801 45688	$\sinh 1$	
*	0 .17647 05882 35294 11765	$3/17$	
	7 .17671 16727 42093 97280	$\Gamma^2(1/3)$	
*	0 .17753 29665 75886 78176	$1 - \pi^2/12$	
	2 .17758 60903 03602 13050	$\pi \ln 2$	
	0 .17759 67713 14338 30435	$-J_0(5)$ Bessel Function	
	0 .17827 10306 10558 28734	$e^{-9} \int_0^3 e^{t^2} dt$	35
	8 .17836 81036 10282 40958	$\sum_{n=1}^{2000} 1/n$	
	1 .17851 13019 77579 20733	$\sqrt{50/6}$	
	0 .17857 14285 71428 57143	$5/28$	
	1 .17897 97444 72167 27023	$2\pi^{-1} \int_0^\pi t^{-1} \sin t dt$ Gibb's Constant	2
	2 .17944 94717 70336 77612	$\sqrt{19/2}$	
	1 .17950 90246 02916 76856	root of $x^3 + 2x - 4 = 0$	
	0 .17958 71221 25166 56169	$\pi^{-3/2}$	
	0 .17965 20355 07897 34573	$1/\Gamma(1/6)$	
	3 .17979 73380 56485 49718	$\sqrt{91/3}$	
	1 .17994 28331 21588 77659	$(1 + 1/2 + 1/3 + 1/5 + \dots)/2$	31
	2 .17998 10721 58157 28502	root of $x^3 - 2x - 6 = 0$	
	0 .17801 26359 04475 28755	$(c-1)/(c+1)$ $c = [1, 2, 3, 4, 5, \dots]$	15
*	1 .18127 37092 74658 12676	$1 + 2 \sum_{n=1}^{\infty} (n+2)/((n+2)!)^2$	
	0 .18152 33741 86222 57917	$\pi^{12} - 924269$	
	0 .18267 58136 81599 50710	$\sqrt{8} - \sqrt{7}$	
	1 .18321 59566 19923 20851	$\sqrt{35/5}$	
4	.18330 01326 70377 73989	$\sqrt{70/2}$	
*	0 .18473 81991 44255 72190	root of $9x e^x = 2$	
	0 .18479 95678 58223 13167	$\pi/17$	
	0 .18513 56391 96836 08738	root of $e^x = 6.5x$ (other is 2.95545 ...)	
*	2 .18581 28414 34000 21745	$\sqrt{43/3}$	
*	9 .18631 71048 47319 46043	root of $x \ln x = 2x + 2$	
	1 .18639 95522 99257 53619	$\arccos(3/8)$	
	1 .18656 91104 15625 45282	$\pi^2/(12 \ln 2)$	
	5 .18737 75176 39620 26081	$\sum_{n=1}^{100} 1/n$	
*	4 .18879 02047 86390 98462	$4\pi/3$	
	2 .18890 10593 16733 94201	$(\sqrt{3} + \sqrt{7})/2$	
	0 .18902 19439 20826 50675	$Y_0(3.5)$ Bessel Function	
	1 .18920 71150 02721 06672	$2^{1/4}$	
*	1 .19023 80714 23808 33300	$\sqrt{51/6}$	
	1 .19028 99496 82531 73293	$\operatorname{arccot} 0.4$	
	0 .19047 61904 76190 47619	$4/21$	

(continued)

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Table I (continued)

				Ref.
11	.19080	80477 38830 97155	$2\pi e^Y$	10
1	.19087	45855 22238 64864	$10^{11} - 31830988618\pi$	
2	.19133	77130 90894 24432	$\sqrt{13} - \sqrt{2}$	
0	.19230	76923 07692 30769	$5/26$	
1	.19269	47246 46388 14868	$2e E_1(1)$	9
0	.19314	71805 59945 30942	$\ln 2 - 0.5$	
2	.19328	00507 38015 45656	$e^{\pi/4}$	
0	.19354	83870 96774 19355	$6/31$	
2	.19374	10968 48030 51510	$\sqrt{77}/4$	
0	.19392	87476 87422 35540	$-J_0(9.5)$ Bessel Function	
1	.19421	87900 26849 50536	$\prod_{n=1}^{\infty} (1+1/(2\pi)^n)$	
3	.19451	32427 36193 31289	[3, 5, 7, 11, ...] terms are odd primes	15
0	.19452	80494 65325 11362	$(e^2-7)/2 = c_2$	21
0	.19470	50086 29504 53327	$-Y_0(4.5)$ Bessel Function	
1	.19476	32172 87109 30411	$\operatorname{arcsinh} 1.5$	
0	.19575	25823 77081 13613	$\int_0^{\infty} e^{-x^2}/(x+4) dx$	
2	.19582	33454 45647 15283	root of $x^3 - 3x - 4 = 0$	
1	.19595	57860 17513 59600	$1 + 1/2 \cdot 3 + 1/5 \cdot 8 + 1/13 \cdot 21 + \dots$	31
5	.19615	24227 06631 88058	$\sqrt{27}$	
0	.19616	42811 87842 14924	root of $\cos x = 5x$	
0	.19626	15682 81412 49230	$\sqrt{7} - \sqrt{6}$	
0	.19634	95408 49362 07740	$\pi/16$	
1	.19662	12833 72294 22024	$\sqrt{19} - \sqrt{10}$	
1	.19698	31140 13373 49728	[1, 5, 13, 17, ...]	15,26
3	.19722	10155 41813 02773	$\sqrt{92}/3$	
2	.19722	45773 36219 38279	$\ln 9$	
0	.19739	55598 49880 75837	$\arctan 0.2$	
0	.19772	19567 05868 02754	$(1-2(\ln 2)^2)^{1/2} = (f(1))^{-1}$	44
4	.19807	31942 70131 93619	$2(\sqrt{5}-1)[1, 1, 2, 3 \dots]$	15,31
0	.19866	93307 95061 21546	$\sin 0.2$	
1	.19895	78808 28179 88540	$\sqrt{23}/4$	
1	.19967	86402 57733 83392	root of $\coth x = x$	
6	.20000	45360 03311 28242	7654321/1234567	
0	.20135	79207 90330 79146	$\arcsin 0.2$	
0	.20140	52352 72642 18062	root of $e^{1/x}(5x-1) = 5x$	34
21	.20143	56605 49920 74009	maximum of $x^{-5}(e^{1/x}-1)^{-1}$	34
3	.20156	21187 16424 34324	$\sqrt{41}/2$	
1	.20185	04251 54663 09771	$\sqrt{13}/3$	
1	.20191	31636 66184 62482	root of $\cos x = 0.3x$	
1	.20205	69031 59594 28540	$\zeta(3)$	8

(continued)

Table I (continued)

				Ref.	
1	.20216	78731	97042 93921	root of $x e^x = 4$	
0	.20318	78699	79979 95384	root of $\ln x = 2x - 2$	
0	.20324	11861	57877 67762	root of $250x^3 - 2x^2 - 5x - 1 = 0$	
0	.20328	09514	31295 37148	$\ln \Gamma(3/4)$	
*	.20388	83547	02240 16444	root of $4x e^x = 1$	
0	.20420	53115	48708 22667	$[0, 1, 1, 2, 3, \dots]^3$	15,31
0	.20448	14493	39915 53362	root of $e^x = 6x$ (other is 2.83314 ...)	
2	.20452	53944	51717 19008	root of $x \tan x + 3 = 0$	
0	.20477	09230	10457 97247	$(\pi - \sqrt{3} - 1)/2$	
2	.20500	32780	24059 97049	root of $x e^x = 20$	
0	.20609	01588	37516 01836	$\sqrt{e/8}$	
0	.20634	56499	01055 83310	$e^4 E_1(4)$	9
0	.20689	65517	24137 93103	$6/29$	
0	.20710	67811	86547 52440	$(\sqrt{2}-1)/2$	
0	.20723	60838	12211 65251	$1 - F(1,0)$	36
0	.20738	55510	28673 98527	$\zeta(5)/5$	8
*	.20787	95763	50761 90855	$e^{-\pi/2}$	
0	.20791	16908	17759 33710	$\sin 12^\circ = (1/16)(2\sqrt{3} - 2\sqrt{15} + \sqrt{5-2\sqrt{5}} + \sqrt{25+10\sqrt{5}})$	
2	.20794	02165	81961 71369	$\sqrt{78}/4$	
0	.20825	62704	16469 44245	$3e^3/(e^3-1) - \ln(e^3-1)$	
0	.20871	21525	22079 99671	$(5-\sqrt{21})/2 = \text{root of } x^2 - 5x + 1 = 0$	
1	.20919	95761	56145 23373	$2\pi\sqrt{3}/9$	
1	.20924	21466	73226 85556	$\sqrt{3} [0, 1, 2, 3, 5, \dots]$	15,31
0	.20943	95102	39319 54923	$\pi/15$	
2	.20975	33012	08849 04384	root of $x^3 + x - 13 = 0$	
0	.21001	82300	18964 42004	$\ln \lambda(2) = \ln(\pi^2/8)$	8
*	.21052	63157	89473 68421	$4/19$	
9	.21096	43874	01485 17920	root of $x \tan x + 2 = 0$	
2	.21108	31935	70266 56608	$\sqrt{44}/3$	
7	.21110	25509	27978 58624	$\sqrt{52}$	
1	.21152	76586	28588 44636	$10^{1/12}$	
1	.21202	56565	24324 39884	$\text{arccot}(3/8)$	
*	.21307	48865	88179 31532	$\sqrt{71}/2$	
*	.21335	16482	13419 71185	$\sqrt{53}/6$	
1	.21341	16627	62229 63413	root of $x^3 + x - 3 = 0$	
0	.21342	17652	83388 40179	$\sqrt{6} - \sqrt{5}$	
*	.21428	57142	85714 28571	$3/14$	
3	.21455	02536	64318 33192	$\sqrt{93}/3$	
*	.21590	35946	03614 99453	$Y_2(4)$ Bessel Function	
1	.21655	25060	59643 93780	$\sqrt{37}/5$	

(continued)

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Table I (continued)

		Ref.	
*			
0	.21716 78443 07476 32387	root of $dF(1,x)/dx = 0$ See 0.74531 ...	36
0	.21728 68967 51640 17879	$\sqrt{\sqrt{125}-10}/5$	
0	.21739 13043 47826 08696	5/23	
0	.21784 89836 85845 58702	$J_2(4.5)$ Bessel Function	
0	.21846 62898 86022 99468	$(\sqrt{23} - \sqrt{19})/2$	
*			
0	.21938 39343 95520 27368	$E_1(1)$	9
*			
1	.22074 40846 05759 47536	root of $x^4 - x - 1 = 0$	
0	.22138 02495 98693 88887	$-ber(3)$ Bessel Function	
2	.22144 14690 79183 12351	$\pi/\sqrt{2}$	
2	.22204 86043 28897 21252	$\sqrt{79}/4$	
0	.22352 14893 87566 22053	$Y_0(8)$ Bessel Function	
0	.22360 67977 49978 96964	$\sqrt{5}/10$	
0	.22388 75363 52072 20408	$(\sqrt{22} - \sqrt{18})/2$	
0	.22389 07791 41235 66805	$J_0(2)$ Bessel Function	
2	.22398 00905 69315 52117	$11^{1/3}$	
0	.22439 94752 56413 80275	$\pi/14$	
0	.22451 72519 83232 06267	γ^e	10
1	.22474 48713 91589 04910	$\sqrt{6}/2$	
2	.22475 14809 80583 01538	[2,4,2,4,2,3,2,4,2,4,2,3,2,4,2,4,2,3,2,4,2,4,2,3,2,4,2, ...]	15,19
*			
1	.22541 67024 65177 64513	$\Gamma(3/4)$	
0	.22580 64516 12903 22581	7/31	
0	.22675 56815 74643 36765	$-Y_2(9)$ Bessel Function	
1	.22723 20351 42826 29468	$\sqrt{15} - \sqrt{7}$	
4	.22745 35333 76265 40809	$-\psi(1/4) = \gamma + 3 \ln 2 + \pi/2$	10
0	.22755 09577 68849 99385	$4/\pi^2 e^\gamma$	10
0	.22756 34054 87472 14332	root of $7x e^x = 2$	
0	.22787 91541 62691 79771	$J_2(9.5)$ Bessel Function	
5	.22797 19246 77803 66749	$\sinh(3\pi/4)$	
*			
1	.22803 36376 37964 89065	$\sqrt{12} - \sqrt{5}$	
*			
0	.22849 14041 10495 58049	root of $e^x = 5.5x$ (other is 2.69682 ...)	
0	.22882 28082 15942 24834	$\sqrt{\pi/60}$	
0	.22949 52678 80294 24641	$\sqrt{20} - \sqrt{18}$	
0	.22973 50346 69089 72838	$(\sqrt{21} - \sqrt{17})/2$	
0	.22985 79025 48113 07052	$Y_2(6)$ Bessel Function	
6	.23008 24786 66357 73319	$-ber(5)$ Bessel Function	
*			
0	.23027 34105 25790 26215	$-J_2(7.5)$ Bessel Function	
0	.23076 92307 69230 76923	3/13	
0	.23083 50985 83083 45189	$(\ln 2)^4$	
1	.23095 94173 40774 68213	$\arccos(1/3)$	
0	.23106 04319 23370 63401	$-J_1(4.5)$ Bessel Function	

(continued)

Table I (continued)

			Ref.	
1	.23153	77486 91495 54170	$\sqrt{7} - \sqrt{2}$	
3	.23178	65716 10886 00938	$\sqrt{94}/3$	
2	.23182	86244 09009 36739	root of $x^x = 6$	
0	.23208	76721 44214 72724	$J_2(1.5)$ Bessel Function	
0	.23240	81207 56001 78448	root of $3x^2 - 5x + 1 = 0$	
1	.23288	28005 93795 29005	$\sqrt{38}/5$	
4	.23295	88222 92912 77876	$F(-1,4)$	36
1	.23370	05501 36169 82735	$\lambda(2) = \pi^2/8$	8
*	0	.23463 63468 53914 62438	$J_1(8)$ Bessel Function	
0	.23529	41176 47058 82353	4/17	
0	.23570	22603 95515 84147	$\sqrt{2}/6$	
0	.23579	33179 23013 00242	$\sqrt{19} - \sqrt{17}$	
1	.23603	30811 82610 49145	$\sqrt{55}/6$	
2	.23606	79774 99789 69641	$\sqrt{5}$	
0	.23809	52380 95238 09524	5/21	
67	.23813	22487 89187 10140	$e^6/6$	
0	.23845	70554 67954 41193	root of $\int_x^1 (\ln t)/(t-1) dt = 1$	
*	1	.23861 26258 46666 75906	$\ln 2/(\ln 7 - \ln 4)$	
21	.23940	25795 72208 73417	-bei (7) Bessel Function	
1	.23978	45987 05602 09151	arccos 0.325	
0	.23981	17420 00564 72594	$\gamma - Ci(1)$	9,10
2	.24004	09874 69437 75817	root of $x^3 - x - 9 = 0$	
1	.24019	34727 13540 40291	[1, 4, 6, 8, 9, ...] terms are nonprimes	15
3	.24037	03492 03930 11548	$\sqrt{10.5}$	
1	.24070	09817 98800 03334	$(6/\pi)^{1/3}$	
0	.24137	93103 44827 58621	7/29	
0	.24145	30070 05223 85466	$1/(\pi+1)$	
0	.24156	44752 70490 44469	$\ln(4/\pi) = -\ln \beta(1)$	8
0	.24166	09733 53061 01834	$\pi/13$	
0	.24226	84576 74873 88638	$J_1(0.5)$ Bessel Function	
4	.24264	06871 19285 14641	$\sqrt{18}$	
0	.24267	46806 40890 20167	root of $\cos x = 4x$	
0	.24287	32099 60185 46772	$-J_2(6)$ Bessel Function	
0	.24295	77986 66628 33353	$(\sqrt{19} - \sqrt{15})/2$	
1	.24327	23122 21374 20145	[1, 4, 9, 25, ...] terms are squares of primes	15
1	.24328	84783 99715 64408	[1, 4, 9, 16, 25, ...] terms are squares of integers	15
*	0	.24491 86624 03709 12928	tanh 0.25	
0	.24497	86631 26864 15417	arctan 0.25	
6	.24499	79983 98398 20585	$\sqrt{39}$	
0	.24531	17865 73325 27232	$J_1(9)$ Bessel Function	

(continued)

Table I (continued)

				Ref.
0	*.24593	57644	51348 33520	$-J_0(10)$ Bessel Function
1	.24721	91289	24647 12853	$\sqrt{14}/3$
0	.24740	39592	54522 92960	$\sin 0.25$
0	.24746	64615	47263 45294	$\operatorname{arcsinh} 0.25$
3	.24893	14482	69654 63561	$\sqrt{95}/3$
1	.24899	95996	79679 64117	$\sqrt{39}/5$
0	.24901	54242	06953 88392	$Y_1(10)$ Bessel Function
0	.24930	12830		$(1/2 - 1/3) + 1/5 - 1/7 + 1/11 - 1/13 + \dots$ twin primes
0	.24956	60400	36659 72142	$\operatorname{bei}(1)$ Bessel Function
0	.24993	66982	85024 67602	$Y_0(9)$ Bessel Function
0	.25012	22794	10243 66464	$\sqrt{17} - \sqrt{15}$
0	.25049	16501	72671 88041	$(\sqrt{18} - \sqrt{14})/2$
0	*.25069	87170		$1/3 - 1/5 + 1/7 - 1/11 + 1/13 - \dots$ twin primes
0	.25193	49964	48972 22840	$\int_0^\infty e^{-x^2}/(x+3) dx$
1	.25235	32340	02588 76319	root of $4 \cos x = x$
0	.25248	24589	25453 99604	$3/2 - \ln(e^{3/2} - 1)$
0	.25261	23168	08168 30791	$\sinh 0.25$
0	.25268	02551	42078 65349	$\arcsin 0.25$
0	.25305	12805	96101 03125	$2(12!)/(2\pi)^{12} = 467775/2\pi^{12}$
1	.25331	41373	15500 25121	$\sqrt{\pi/2}$
1	.25375	39340	92086 60456	$\cosh(2\pi/9)$
0	.25392	77431	75264 56667	$1/2^2 + 1/4^4 + 1/6^6 + 1/8^8 \dots$
1871	.25430	57977	88346 47692	$\Gamma(7.5) = 135135\sqrt{\pi}/128$
0	*.25463	03136	85120 62253	$J_2(10)$ Bessel Function
1	.25501	36915	93385 05842	root of $x e^x \ln x = 1$
0	.25541	28118	82995 34160	$\operatorname{arctanh} 0.25 = 0.5 \ln(5/3)$
1	.25611	76684	31800 47273	$\psi(4) = 11/6 - \gamma$
1	.25643	12086	26169 67698	root of $e^x = 2x + 1$
1	.25656	44277	10558 30942	$\operatorname{arccot} 0.325$
1	*.25727	41156	69185 05938	$\pi^{1/5}$
0	.25762	76530	49736 70428	root of $3x e^x = 1$
0	.25806	45161	29032 25806	$8/31$
2	.25825	88834	02608 58183	root of $x^3 - 2x - 7 = 0$
1	.25830	57392	11791 61621	$\sqrt{57}/6$
0	.25834	26132	26058 61442	$4 - \sqrt{14}$
0	.25877	71750	76835 62835	$(\sqrt{17} - \sqrt{13})/2$
0	.25881	90451	02520 76235	$\sin 15^\circ = (\sqrt{6} - \sqrt{2})/4$
0	.25881	94037	92806 79841	$(3^{1/3} \Gamma(1/3))^{-1}$
0	*.25917	11018	19073 74506	root of $e^x = 5x$ (other is 2.54264 ...)
1	.25992	10498	94873 16477	$2^{1/3}$

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(continued)

Table I (continued)

			Ref.	
0 .26005	19549	01933 43762	$-J_0(3)$ Bessel Function	
0 .26009	46055	81606 38140	$-J_0(6.5)$ Bessel Function	
1 .26050	54353	50809 38883	$\sqrt{1+x}$ $x = [0, 1, 1, 2, \dots]$	15,31
3 .26050	78256	00940 55513	$d^2 F(1,x)/dx^2$ at $x = 0$	36
2 .26077	66610	41756 04635	$\sqrt{46}/3$	
0 .26086	95652	17391 30435	6/23	
1 .26140	95818	19465 63158	1/F(1,0)	36
0 .26149	72128	47642 78376	e	11
3 .26168	56845	76488 77691	root of $e^x = 8x$ (other is 0.14442 ...)	
0 .26179	93877	99149 43654	$\pi/12$	
0 .26208	37402	55318 49619	$e^3 E_1(3)$	9
1 .26262	72556	78911 68344	arctan π	
0 .26303	66048	20378 09409	$-Y_2(8)$ Bessel Function	
0 .26315	78947	36842 10526	5/19	
2 .26384	62845	34354 15664	$\sqrt{82}/4$	
2 .26393	14932	43408 53286	F(1,3)	36
0 .26426	50385	05655 05235	root of $16x^6 - 12x^4 - 4x^3 + x^2 + 4x - 1 = 0$	
1 .26491	10640	67351 73280	$\sqrt{40}/5$	
3 .26598	63237	10904 13093	$\sqrt{96}/3$	
1 .26610	36727	79499 11126	arccos 0.3	
0 .26633	96578	80378 39687	$J_0(7.5)$ Bessel Function	
7 .26637	13332	82502 94081	root of $x^3 - 6x^2 - 7x - 16 = 0$	
0 .26743	20707	43427 59206	$\sqrt{15} - \sqrt{13}$	
0 .26749	88286	24587 40700	cos 1.3	
0 .26794	91924	31122 70647	$\tan 15^\circ = 2 - \sqrt{3}$	
0 .26848	68840	48115 07571	root of $8x^3 + 8x^2 + x - 1 = 0$	
0 .26923	07692	30769 23077	7/26	
1 .26929	55176	43984 71428	$\sqrt{58}/6$	
0 .26960	65		1/2 - 1/3 + 1/5 - 1/7 + 1/11 ... all primes	
0 .27058	08084	27784 54788	$\zeta(4)/4 = \pi^4/360$	8
0 .27175	82211	18238 64909	$(2\pi - 3\sqrt{3})/4$	
2 .27199	83229	34631 23487	root of $x^3 + x - 14 = 0$	
4 .27200	18726	58765 58394	$\sqrt{73}/2$	
1 .27201	96495	14068 96425	$\sqrt{(\sqrt{5}+1)/2} = \text{root of } x^4 - x^2 - 1 = 0$	
1 .27323	95447	35162 68615	4/ π	
1 .27475	48783	98196 20751	$\sqrt{26}/4$	
0 .27581	56628	30209 31436	1/ $\Gamma(1/4)$	
3 .27582	29187	21811 15979	$\exp(\pi^2/(12 \ln 2))$	
0 .27586	20689	65517 24138	8/29	
1 .27653	29371	76749 38848	$\pi \sum_{n=1}^{\infty} (-1)^{n+1} \cdot n/a_n$	33

(continued)

Table I (continued)

				Ref.	
0	.27668	38581	27565 60817	$-J_1(6)$ Bessel Function	
2	.27671	75312	28072 59731	minimum of $(1+e^x)^2/x^2 e^x$ See 2.39935 ...	
5	.27686	47688	47125 76206	$\sqrt{5}(1 + 1/2 + 1/3 + 1/5 + 1/8 + \dots)$	31
0	.27755	57716	36186 79853	$\sqrt{14} - \sqrt{12}$	
2	.27760	83947	86074 72049	$\sqrt{83}/4$	
1	.27816	30727	98148 59486	root of $x^3 + x^2 + x - 5 = 0$	
0	.27817	92779	26008 51803	$(\sqrt{15} - \sqrt{11})/2$	
1	.27846	45427	61073 79511	root of $e^{-x} = x - 1$	
3	.27871	92621	51000 32617	$\sqrt{43}/2$	
2	.27901	87861	66593 57949	root of $x^3 - 3x - 5 = 0$	
1	.27933	95323	17029 52724	arccot 0.3	
2	.27958	53023	36067 26744	$\sum_{n=0}^{\infty} 1/(n!)^2 = J_0(2i)$ Bessel Function	
7	.28010	98892	80518 27110	$\sqrt{53}$	
1	.28019	09579	78101 36263	$\sqrt{59}/6$	
0	.28054	99261	69590 06357	$(\ln(1 + \sqrt{2}))/\pi$	
1	.28062	48474	86569 73730	$\sqrt{41}/5$	
4	.28124	77317	57470 48037	$99^9 \times 10^{-369693099}$	
0	.28164	94377	62988 76371	$\sqrt{e2-3e+1}/(e-1)$	
5	.28165	24660	99236 39262	root of $68e^x = x^5 + 5x^4 + 20x^3 + 60x^2 + 120x + 120$	
0	.28171	81715	40954 76464	$3 - e$	
1	.28247	46787	30768 36803	$(\ln 13)/2$	
1	.28257	81034	98418 67452	$(2.5)^3 e^{-2.5}$	
6	.28266	38802	99503 46192	$\sum_{n=1}^{300} 1/n$	
0	.28284	27124	74619 00976	$\sqrt{2}/5$	
3	.28295	26005	98701 57392	$\sqrt{97}/3$	
6	.28318	53071	79586 47693	2π	
2	.28521	82001	33681 37498	$\sqrt{47}/3$	
0	.28539	81633	97448 30962	$(\pi-2)/4$	
0	.28559	93321	44526 65804	$\pi/11$	
0	.28571	42857	14285 71429	$2/7$	
1	.28790	97507	04127 23594	root of $x^3 + 3x - 6 = 0$	
1	.28802	25246	98077 45737	$\ln \Gamma(1/4)$	
2	.28803	77953	40032 41796	$\Gamma(\pi)$	
0	.28819	46839	81579 15407	$-Y_0(6)$ Bessel Function	
0	.28860	78324	50766 43030	$\gamma/2$	10
0	.28867	51345	94812 88225	$\sqrt{3}/6$	
0	.28892	64851	08589 44400	$\sqrt{13} - \sqrt{11}$	
0	.28914	46485	70671 58311	$1/2 - 1/3 + 1/5 - 1/8 \dots = 1 - \phi_2$	32
2	.28942	84851	06663 73562	$12^{1/3}$	
0	.28968	98633	02781 02679	$(\sqrt{14} - \sqrt{10})/2$	

(continued)

Table I (continued)

			Ref.
3	.28986 81336 96452 87294	$\pi^2/3$	
*			
0	.29032 25806 45161 29032	9/31	
1	.29099 44487 35805 62839	$\sqrt{15}/3$	
1	.29128 59970 62663 54041	$1 + 1/2^2 + 1/3^3 + 1/4^4 + \dots = \int_0^1 x^{-x} dx$	
2	.29128 78474 77920 00329	$\sqrt{21}/2$	
0	.29145 67944 77867 09200	arctan 0.3	
5	.29150 26221 29181 18100	$\sqrt{28}$	
0	.29156 09040 30818 78014	$\beta(2)/\pi$	8
1	.29216 76439 90763 28739	$\sqrt{14} - \sqrt{6}$	
0	.29226 18751 66485 23063	$(\Gamma(1.5))^{-1}$	44
2	.29269 03226 99299 83359	bei (4) Bessel Function	
*			
2	.29316 62874 11861 03151	root of $x^{x+1} = (x+1)^x$	
3020	.29322 77767 92067 51421	π^7	
0	.29411 76470 58823 52941	5/17	
1	.29467 85008 71470 45222	$\sqrt{17} - \sqrt{8}$	
1	.29468 32846 76844 68784	cosh 0.75	
*			
1	.29482 36078 23322 76181	$-\cot 10^{12}$	
0	.29552 02066 61339 57511	sin 0.3	
0	.29522 90769 89542 02753	$1 - (\pi - \sqrt{3})/2$	
57	.29577 95130 82320 87680	180/ π	
3	.29583 68660 04329 07419	ln 27	
1	.29614 81396 81572 04619	$\sqrt{42}/5$	
*			
0	.29716 77506 73138 54678	root of $5x e^x = 2$	
3	.29744 25414 00256 29370	$2\sqrt{e}$	
0	.29793 97226 03012 06143	$(1/\sqrt{2\pi}) \int_0^1 e^{-x^2} dx$	
*			
1	.29903 81056 76657 97015	$\sqrt{27}/4$	
3	.29983 16455 37221 78054	$\sqrt{98}/3$	
0	.29995 51794 47669 44335	root of $e^x = 4.5x$ (other is 2.36474 ...)	
5	.30003 40202 17729 39347	654321/123456	
0	.30007 92705 19555 59665	$J_0(7)$ Bessel Function	
0	.30099 73230 69654 62342	$Y_1(4.5)$ Bessel Function	
0	.30102 99956 63981 19521	$\log_{10} 2$	
4	.30116 26335 21313 38586	$\sqrt{74}/2$	
0	.30122 44879 47746 77993	ϕ_2/ϕ_1	32
*			
2	.30129 89023 07294 87346	$\sinh(\pi/2)$	
0	.30134 03889 23791 96603	$e^{-4} \int_0^2 e^{t^2} dt$	35
0	.30141 72200 85940 12028	$-J_2(7)$ Bessel Function	
1	.30170 82793 17775 73235	$\sqrt{61}/6$	
0	.30182 39549 69375 25506	$\sqrt{12} - \sqrt{10}$	
2	.30258 50929 94045 68402	ln 10	

(continued)

Table I (continued)

			Ref.	
0 .30266	72370	24184 87006	$-Y_1(7)$ Bessel Function	
0 .30277	56377	31994 64656	$(\sqrt{13}-3)/2$	
* 1 .30313	32544	66797 97586	$[1, 1, 2, 3, 5 \dots]^{1/2}$	15,31
0 .30315	02751	47523 56868	$\ln \Gamma(2/3)$	
2 .30384	21962	83770 42211	$[2, 3, 3, 2, 3, 3, 2, 3, 3, 2, 4, 2, 3, 3, 2, 3, 3, 2, 3, 3, 2, 3, 3, 2, 3, 3, 2, 3, 3, 3 \dots]$	15,17
3 .30384	21963	07182 51299	$[3, 3, 3, 2, 3, 3, 2, 3, 3, 2, 3, 3, 2, 3, 3, 2, 3, 3, 2, 3, 3, 2, 3, 3, 2, 3, 3, 2 \dots]$	15,18
0 .30408	73193	52284 39701	$16e^4/(e^4-1)^2$	
0 .30434	78260	86956 52174	$7/23$	
6 .30444	88024	21981 20563	$\ln 547$	
0 .30469	26540	15397 50797	$\arcsin 0.3$	
2 .30488	61143	23221 82750	$\sqrt{85}/4$	
2 .30539	73324	44509 15239	root of $f(x) = x$	44
* 0 .30561	43888	88252 14136	$-\sin 10^4$	42
0 .30685	28194	40054 69058	$1 - \ln 2$	
0 .30743	03906	30828 48513	$-J_2(6.5)$ Bessel Function	
0 .30749	48787	58327 09312	C_4	23
0 .30769	23076	92307 69231	$4/13$	
0 .30847	39490	63878 16604	$6435\pi/2^{16}$	
0 .30851	76252	49033 78007	$-Y_0(5)$ Bessel Function	
2 .30890	73197	65092 78705	root of $x^3 - x - 10 = 0$	
0 .30901	69943	74947 42410	$\sin 18^\circ = (\sqrt{5}-1)/4$	
2 .30940	10767	58503 05804	$\sqrt{48}/3$	
* 1 .30979	95858	04150 47767	root of $e^x \ln x = 1$	
1 .30985	82948	31200 06082	$\sqrt{20} - \sqrt{10}$	
* 0 .31034	48275	86206 89655	$9/29$	
1 .31079	48158	42111 57634	$0.75 e^{0.75}/(e^{0.75}-1) - \ln(e^{0.75}-1)$	
1 .31102	87771	46059 90523	$\Gamma^2(1/4)/4\sqrt{2\pi} = \tilde{\omega}/2$ See 2.62205...	1
1 .31148	77048	60400 13047	$\sqrt{43}/5$	
1 .31158	84052	65344 87131	$2 \tanh(\pi/4)$	
* 1 .31233	46456	68635 16995	$\sqrt{62}/6$	
1 .31303	52854	99331 30364	$(e^2+1)/(e^2-1) = \coth 1$	
2 .31303	67364	33582 90638	$[2, 3, 5, 7, \dots]$ terms are all primes	15
* 0 .31415	92653	58979 32385	$\pi/10$	
0 .31423	18990	84338 30981	$\operatorname{arctan} 0.325$	
3 .31487	73617	86054 93090	root of $e^x = 8x + 1$	
0 .31571	84520	53890 07685	$\gamma - g$	10,11
0 .31578	94736	84210 52632	$6/19$	
8 .31592	60942	73872 17362	$[1, 1, 2, 3, 5, 8, \dots]^4$	15,31
1 .31594	72534	78581 14918	$2\pi^2/15$	
0 .31622	77660	16837 93320	$\sqrt{10}/10$	

(continued)

Table I (continued)

			Ref.
2	.31645 49587 85612 30133	root of $x^x = 7$	
3	.31662 47903 55399 84911	$\sqrt{11}$	
0	.31675 08287 71221 17189	root of $\cos x = 3x$	
0	.31783 72451 95782 24473	$\sqrt{3} - \sqrt{2}$	
1	.31790 21514 54403 89486	$\int_0^1 (e^x - 1)/x dx = \sum_{n=1}^{\infty} 1/(n \cdot n!) = \text{Ei}(1) - \gamma$	9,10
1	.31811 60716 52817 96575	arccos 0.25	
0	.31830 98861 83790 67154	$1/\pi$	
0	.31836 64762 15973 93815	[0, 3, 7, ...] primes of form $4n - 1$	15,27
2	.31840 46238 73925 93813	$\sqrt{86}/4$	
1	.31926 33561 69539 28959	$E_1(2) + \ln 2 + \gamma$	9,10
3	.31978 32182 00604 47106	ϕ_1/ϕ_2	32
0	.32054 25089 85121 42436	$-J_0(4.5)$ Bessel Function	
0	.32097 11346 23814 72461	$\tan 10^4$	
2	.32112 60468 92043 21507	$(e^{1.5} - 1)/1.5$	
0	.32142 85714 28571 42857	$9/28$	
0	.32218 53546 26085 59291	root of $x^3 + 3x - 1 = 0$	
0	.32258 06451 61290 32258	$10/31$	
5	.32275 21495 19958 52028	cosh 0.75 π	
1	.32287 56555 32295 29525	$0.5\sqrt{7}$	
3	.32335 09704 47842 55118	$\Gamma(3.5) = 15\sqrt{\pi}/8$	
6	.32455 53203 36758 66400	$\sqrt{40}$	
1	.32460 90892 52005 84666	cosh 0.25 π	
0	.32467 44247 91799 97844	$Y_1(3)$ Bessel Function	
1	.32471 79572 44746 02596	root of $x^3 - x - 1 = 0$	
0	.32565 42945 96930 36129	$1/(\phi_1 + \phi_2)$	32
1	.32581 76636 68032 46506	arccot 0.25	
1	.32589 77669 01137 46480	arsinh 1.75	
1	.32664 99161 42159 93965	$\sqrt{44}/5$	
1	.32672 46652 42200 22364	root of $x e^x = 5$	
2	.32744 38244 00846 33678	$\sqrt{14} - \sqrt{2}$	
0	.32757 91375 91465 22204	$-J_1(5)$ Bessel Function	
1	.32826 88556 68608 39092	root of $x^3 + 2x - 5 = 0$	
0	.32848 15966 60462 14368	$Y_2(4.5)$ Bessel Function	
0	.32903 88790 01470 04377	$429\pi/4096$	
1	.32934 03881 79137 02047	$\Gamma(2.5) = 0.75\sqrt{\pi}$	
102	.32948 20068 24898 56830	$2e^{13/2}/13$	
4	.33012 70189 22193 23382	$\sqrt{75}/2$	
2	.33074 60861 24829 43391	root of $x^3 - 2x - 8 = 0$	
0	.33089 32682 04054 53357	$-\ln(e-2)$	
0	.33101 17280 89294 52772	arcsin 0.325	

(continued)

Table I (continued)

				Ref.
2	.33119	47347 28493 97187	root of $x^3 + x - 15 = 0$	
1	.33133	53638 00389 71280	$\pi^{1/4}$	
2	.33184	47632 72203 76139	$\sqrt{87}/4$	
0	.33301	99927 51734 82531	$(\sum_{n=1}^{\infty} n/a_n)^{-1}$	33
0	.33302	46519 88929 47972	$(\ln 2)^3$	
0	.33385	05354 22189 23440	$\sqrt{10} - \sqrt{8}$	
1	.33456	82515 29384 30946	$e^{\gamma/2}$	10
0	.33467	59379 35283 31766	$\pi(e^{-0.5} - 0.5)$	
7	.33474	65408 47962 41933	-bei (6) Bessel Function	
0	.33498	13252 99965 06437	$1/3 - 1/5 + 1/7 + 1/11 - 1/13 - \dots$	25
0	.33543	67396 45404 62931	$(\sqrt{11} - \sqrt{7})/2$	
2	.33666	29822 63053 88118	root of $e^x = 4x + 1$	
0	.33740	39229 00968 13466	$C_1(1) = \gamma - 1/2 \cdot 2! + 1/4 \cdot 4! - 1/6 \cdot 6! \dots$	9,10
1	.33819	98648 98964 38141	$\sum_{n=1}^{\infty} 1/na_n$	33
*	.33905	89585 25936 45893	$J_1(3)$ Bessel Function	
0	.33983	69094 54121 93710	$\arcsin(1/3)$	
1	.34164	07864 99873 81785	$\sqrt{45}/5$	
1	.34170	68957 41298 57695	maximum of $(F(1,x))^{-1}$ $x = 0.21716 \dots$	36
52	.34277	77845 53520 18115	$\Gamma(5.5) = 945\sqrt{\pi}/32$	
0	.34337	79615 56427 03283	$\int_0^{\infty} xe^{-x} dx / (1 + x^2)$	
1	.34370	96247 16424 94206	$\sqrt{65}/6$	
*	.34425	08459 32326 46044	$27/e^3$	
0	.34482	75862 06896 55172	$10/29$	
2	.34520	78799 11714 77728	$\sqrt{22}/2$	
3	.34526	65137 08411 68912	$\sqrt{2\pi e^{\gamma}}$	10
0	.34615	38461 53846 15385	$9/26$	
1	.34629	12017 83626 00781	$\sqrt{29}/4$	
0	.34641	01615 13775 45871	$\sqrt{3}/5$	
0	.34657	35902 79972 65471	$0.5 \ln 2$	
*	.34677	25319 90603 59240	$[0, 1, 1, 2, 3, 5, \dots]^2$	15,31
0	.34782	60869 56521 73913	$8/23$	
*	.34846	92283 49534 29459	$\sqrt{54}$	
3	.34861	21356 16703 66021	root of $2e^x = 17x$ (other is 0.13459 ...)	
0	.34903	03293 81918 84300	$\sqrt{20} - \sqrt{17}$	
0	.34906	58503 98865 91538	$\pi/9$	
0	.34999	35021 71292 95212	$-\sin 10^6$	
2	.35040	23872 87602 91376	$e - 1/e = 2 \sinh 1$	
*	.35091	98071 78410 96757	$e^{-\pi/3}$	
2	.35133	46877 20757 48950	$13^{1/3}$	
0	.35142	33674 31279 86438	$\sum_{n=0}^{\infty} (-1)^n/a_n$	33

(continued)

Table I (continued)

			Ref.
0 .35157 75842 54142 92849	$1/\sqrt{2.5(1+\sqrt{5})}$		
0 .35173 37112 49195 82602	root of $2x e^x = 1$		
0 .35189 95615 30427 73818	$(1/\sqrt{2\pi}) \int_0^2 e^{-x^2} dx$		
2 .35240 96152 43247 32577	coth 1.5		
0 .35283 40286 15637 71915	$J_2(2)$		
4 .35284 06602 86750 27820	$(\sqrt{21} + \sqrt{17})/2$		
0 .35294 11764 70588 23529	6/17		
0 .35354 55804 23160 02178	$(1/\sqrt{2\pi}) \int_0^3 e^{-x^2} dx$		
0 .35355 33851 42449 95791	$(1/\sqrt{2\pi}) \int_0^4 e^{-x^2} dx$		
0 .35355 33905 92730 18808	$(1/\sqrt{2\pi}) \int_0^5 e^{-x^2} dx$		
0 .35355 33905 93273 76220	$\sqrt{2}/4$		
1 .35400 64007 72660 06008	$\sqrt{66}/6$		
3 .35410 19662 49684 54461	$\sqrt{45}/2$		
1 .35411 79394 26400 41695	$\Gamma(2/3)$		
0 .35424 86889 35409 40950	$3 - \sqrt{7}$		
0 .35433 59288 49530 63055	$\int_0^\infty e^{-x^2}/(x+2) dx$		
0 .35434 95620 01583 12406	$231\pi/2048$		
0 .35483 87096 77419 35484	11/31		
0 .35502 80538 87817 23926	$1/(3^{2/3} \Gamma(2/3))$		
2 .35530 13976 08119 90993	root of $x^3 - 3x - 6 = 0$		
0 .35542 76757 14664 20844	$\phi_2/2$		32
0 .35639 39586 92600 61690	$(\sqrt{10} - \sqrt{6})/2$		
1 .35646 59966 25053 62781	$\sqrt{46}/5$		
1 .35691 54488 56724 08350	$\ln 2/(\ln 5 - \ln 3)$		
2 .35702 26039 55158 41467	$\sqrt{50}/3$		
0 .35714 28571 42857 14286	5/14		
1 .35720 88082 97453 28576	$2.5^{1/3}$		
0 .35740 29561 81388 90307	root of $e^x = 4x$ (other = 2.15329 ...)		
0 .35813 24532 32374 88877	$(\sum_{n=0}^\infty 1/a_n)^{-1}$		33
2 .35849 52830 14150 95283	$\sqrt{89}/4$		
0 .35877 06702 70572 22040	arctan (3/8)		
4 .35889 89435 40673 55224	$\sqrt{19}$		
2 .35973 04924 14696 88758	$\pi^{0.75}$		
2 .35988 56662 43177 55317	$1 + 1/2 + 1/3 + 1/5 + \dots = \phi_1$		32
2 .36068 11980 32192 45209	$\Gamma^2(1/4)/\pi^{3/2}$		
3 .36091 52580 07192 26874	$5e^{9/5}/9$		
0 .36132 86168 88222 58470	$e^2 E_1(2)$		9
0 .36177 79900 13008 38384	d F(1,x)/dx at x = -3		36
0 .36221 56886 99463 21088	$-\log_{10} \log_{10} e$		
0 .36235 77544 76673 57764	cos 1.2		

(continued)

Table I (continued)

		Ref.
0 .36338 50893 55690 55387	$-\cos 10^8$	
2 .36402 79824 81170 93098	$F(1, \pi)$	36
0 .36412 81458 52072 80421	$J_2(4)$ Bessel Function	
1 .36422 54619 78741 66166	$\sqrt{67}/6$	
1 .36437 63538 41841 34749	$\pi \log_{10} e$	
0 .36437 88396 75906 25705	$(\ln \pi)/\pi$	
2 .36474 94886 48077 56206	root of $2e^x = 9x$ (other is 0.29995 ...)	
0 .36651 29205 81664 32701	$-\ln \ln 2$	
0 .36766 28826 05524 51799	$Y_2(5)$ Bessel Function	
0 .36787 94411 71442 32160	$1/e$	
0 .36842 10526 31578 94737	$7/19$	
1 .36930 63937 62915 28364	$\sqrt{30}/4$	
1 .36943 84060 04565 82778	$\arccos 0.2$	
1 .36948 32979 64199 59671	$\sqrt{13} - \sqrt{5}$	
0 .36965 73409 11868 26123	$\sqrt{18} - \sqrt{15}$	
0 .36982 33073 11909 85389	$\psi(3/2) + 1/3$	
2 .37014 31910 60928 31375	$\sqrt{(C+1)/(C-1)}$ $C = [1, 2, 3, 4, 5, \dots]$	15
56 .37045 85539 06638 23277	$\text{bei}(10)$ Bessel Function	
0 .37084 77921 64711 15901	$\cos 10^{11}$	
0 .37097 20637 60763 67779	root of $16x^6 + 7x^4 + 6x^2 - 1 = 0$	
1 .37113 09200 80208 82499	$\sqrt{47}/5$	
2 .37170 82451 26284 49900	$\sqrt{90}/4$	
0 .37250 74107 81366 63446	root of $Ei(x) = 0$	9
0 .37267 79962 49964 94940	$\sqrt{5}/6$	
0 .37328 21739 07395 22833	$1/\Gamma(1/3)$	
134 .37338 07418 74111 12297	$\cosh^2 \pi = 1 + \sinh^2 \pi$	
1 .37340 07669 45015 86086	$\text{arccot } 0.2$	
0 .37362 44539 87599 02917	$-\tan 10^6$	
0 .37395 58136 19202 28805	$A = \text{Artin's Constant}$	23
1 .37436 85418 72553 51661	$\sqrt{17}/3$	
0 .37685 00100 12790 38197	$Y_0(3)$ Bessel Function	
1 .37879 67001 29550 86014	root of $x^3 + x - 4 = 0$	
0 .37893 73819 63011 99941	$\sqrt{8} - \sqrt{6}$	
0 .37931 03448 27586 20690	$11/29$	
0 .37991 72668 14361 89294	$\ln(8 \zeta(2)/9)$	8
0 .38012 77399 87263 37738	$-J_0(3.5)$ Bessel Function	
2 .38047 61428 47616 66600	$\sqrt{51}/3$	
0 .38050 63771 12364 88630	$\arctan 0.4$	
0 .38095 23809 52380 95238	$8/21$	
0 .38133 58492 41803 24872	$-Y_2(2.5)$ Bessel Function	

(continued)

Table I (continued)

				Ref.	
0	.38144	82388	43719 16424	$\sqrt{17} - \sqrt{14}$	
0	.38157	51577	57004 86164	root of $F(1,x) = 2x$ (other is -1.92957 ...)	36
0	.38196	60112	50105 15180	$0.5(3 - \sqrt{5})$	
1	.38197	65978	85341 91706	$\sqrt{6/\pi}$	
0	.38244	89237	97758 84396	$Y_0(1.5)$ Bessel Function	
3	.38297	57679	06237 49412	root of $x^3 - 3x^2 - x - 1 = 0$	
2	.38423	10290	31371 72415	$\prod_{n=1}^{\infty} (1 + 1/2^n)$	
0	.38439	67744	95639 08304	$\arcsin(3/8)$	
1	.38443	73104	86345 80876	$\sqrt{69/6}$	
0	.38461	53846	15384 61538	5/13	
2	.38484	80035	42364 12288	$\sqrt{91/4}$	
5	.38516	48071	34504 03125	$\sqrt{29}$	
1	.38564	06460	55101 83482	$\sqrt{48/5}$	
1	.38629	43611	19890 61883	$\ln 4$	
0	.38656	31585	47181 58989	$63\pi/512$	
0	.38709	67741	93548 38710	12/31	
0	.38742	58867	22793 11067	$(\sqrt{10}-2)/3$	
4	.38748	21936	96061 03020	$\sqrt{77/2}$	
2	.38768	65533	92324 59890	root of $x^3 + x - 16 = 0$	
23	.38803	11270	52999 54189	$\sqrt{547}$	
2	.38842	34844	99338 55642	root of $x^x = 8$	
2	.38889	44654	92981 75016	$e^{0.25}/4(e^{0.25} - 1) - \ln(e^{0.25} - 1)$	
0	.38894	87855	67334 57417	$\Gamma(10.5) - 1133278 = 654729075\sqrt{\pi}/1024 - 1133278$	
7	.38905	60989	30650 22723	e^2	
961	.38919	35753	04437 03022	π^6	
1	.38919	35965	39684 15069	root of $x^3 + x^2 + x - 6 = 0$	
0	.38941	83423	08650 49167	$\sin 0.4$	
0	.39004	92345	01306 48985	$-\cot 10^8$	
0	.39038	82032	02207 56873	$(\sqrt{17}-1)/8$	
2	.39105	48180	48783 25629	$\sqrt{17} - \sqrt{3}$	
3	.39116	49915	62634 06953	$\sqrt{46/2}$	
0	.39130	43478	26086 95652	9/23	
1	.39194	10907	07505 48053	$\sqrt{31/4}$	
0	.39269	90816	98724 15481	$\pi/8$	
14	.39272	67228	65723 63138	$1 + 1/2 + 1/3 + \dots + 1/1,000,000$	
0	.39285	71428	57142 85714	11/28	
1	.39443	33775	56792 57996	$\sqrt{70/6}$	
0	.39444	87245	36010 70688	$4 - \sqrt{13}$	
0	.39478	41760	43574 34475	$\pi^2/25$	
1	.39493	40668	48226 43647	$\pi^2/6 - 0.25$	

(continued)

Table I (continued)

				Ref.	
1	.39561	24250	86089 52863	$e^{1/3}$	
0	.39714	98098	63847 37229	$-J_0(4)$ Bessel Function	
2	.39791	57616	56359 77080	$\sqrt{23}/2$	
0	.39792	57105	57100 00525	$Y_1(4)$ Bessel Function	
2	.39842	81554	23879 21863	root of $x^3 - 2x - 9 = 0$	
0	.39894	22804	01432 67794	$1/\sqrt{2\pi}$	
0	.39908	99341	79057 52478	$\log_{10} \sqrt{2\pi}$	
0	.39932	19809	06396 06250	$\cot 10^{11}$	
2	.39935	72805	15467 66783	root of $(x-2)e^x = x + 2$ See 2.27671 ...	
4	.40024	30133	65735 11543	54321/12345	
0	.40068	56343	86531 42847	$\zeta(3)/3$	8
2	.40155	56406	45488 57327	$\sqrt{2} [1, 1, 2, 3, 5, 8, \dots]$	15,31
6	.40312	42374	32848 68649	$\sqrt{41}$	
1	.40334	82475	75207 28868	$\arccos 1/6$	
0	.40365	26376	76805 92566	$1 - e E_1(1)$	9
2	.40370	08503	09326 19541	$\sqrt{52}/3$	
1	.40435	82955	29393 10511	$\sqrt{71}/6$	
2	.40482	55576	95772 76862	First zero of $J_0(x)$	
1	.40628	75799	60534 69114	root of $x^3 + 3x - 7 = 0$	
0	.40633	30539	39359 11055	$\sum_{n=1}^{\infty} (-1)^{n+1} \cdot n/a_n$	33
12	.40654	03639	62564 30413	root of $x \tan x + 2 = 0$	
1	.40675	59567	34775 55654	$(1 - 1/2 + 1/3 - 1/5 + 1/8 \dots)^{-1}$	31
0	.40729	34834	12598 57058	$\Gamma(8.5) - 14034 = 2027025 \sqrt{\pi}/256 - 14034$	
0	.40824	82904	63863 01637	$\sqrt{6}/6$	
0	.40846	43100	87026 14978	$\ln(8/(3\sqrt{\pi}))$	
0	.40888	17310	69662 29812	$\sqrt{15} - \sqrt{12}$	
97	.40909	10340	02437 23644	π^4	
2	.40942	08396	53209 00458	$(\ln 2)/(\ln 4 - \ln 3)$	
1	.40954	18460	20915 94494	$\pi - \sqrt{3}$	
0	.40968	33335	64800 89409	$\sqrt{7} - \sqrt{5}$	
1	.40994	34858	69908 37412	$\pi^2/7$	
2	.41014	22641	75229 98613	$14^{1/3}$	
0	.41018	84178	87511 88287	$Y_1(3.5)$ Bessel Function	
0	.41078	12905	02908 69548	$\sin(e)$	
1	.41080	61614	59816 38088	root of $x = e^x \ln x$	
2	.41091	26902	48238 74894	$\sqrt{93}/4$	
9	.41115	92919	93750 16117	$2880/\pi^5$	
0	.41123	35167	12056 60912	$\pi^2/24$	
0	.41151	68460	67488 01938	$\arcsin 0.4$	
0	.41176	47058	82352 94118	$7/17$	

(continued)

Table I (continued)

		Ref.	
0	.41230 86269 73911 29595	$-Y_1(1.5)$ Bessel Function	
148	.41315 91025 76603 42112	e^5	
0	.41329 21161 01594 33663	$\cos \ln \pi$	
0	.41379 31034 48275 86207	12/29	
1	.41421 35623 73095 04880	$\sqrt{2}$	
0	.41447 21676 24423 30502	$2 - F(1,2)$	36
0	.41506 89770 03974 90132	$\pi(0.5 - e^{-1})$	
4	.41588 04331 63923 42738	$\sqrt{78}/2$	
7	.41619 84870 95662 94871	$\sqrt{55}$	
0	.41742 43050 44159 99341	$5 - \sqrt{21}$	
2	.41839 91523 12290 46746	$4\pi\sqrt{3}/9$	
0	.41859 04294 03409 71771	$\ln(15/\pi^2)$	
0	.41893 85332 04672 74178	$(\ln 2\pi - 1)/2$	
0	.41935 48387 09677 41935	13/31	
0	.42054 77931 90782 49130	$\sin 10^7$	
0	.42105 26315 78947 36842	8/19.	
0	.42135 03964 74857 43467	$(1/\sqrt{\pi}) \int_0^1 e^{-x^2} dx$	
3	.42158 89411 86242 56413	$f(1.5)$	44
0	.42191 54369 11800 23894	$\sqrt{(c-1)/(c+1)}$ $c = [1, 2, 3, 4, 5, 6, \dots]$	15
0	.42278 43350 98467 13939	$\psi(2) = 1 - \gamma$	10
0	.42307 69230 76923 07692	11/26	
0	.42331 08251 30748 00310	$\pi - e$	
1	.42349 36034 24238 78698	$\sqrt{15} - \sqrt{6}$	
0	.42374 93427 34875 39022	$(1 + 1/2 + 1/3 + 1/5 + \dots)^{-1}$	31
0	.42377 72081 23757 59679	$\pi^{-0.75}$	
2	.42383 99287 08164 50704	$\sqrt{94}/4$	
1	.42400 06242 19588 52798	$\sqrt{73}/6$	
0	.42503 25964 18541 53647	$\sqrt{14} - \sqrt{11}$	
2	.42598 87573 61622 12608	root of $x^3 - 3x - 7 = 0$	
0	.42630 27510 06862 74567	root of $x e^{2x} = 1$	
2	.42670 32964 26839 42370	$\sqrt{53}/3$	
1	.42744 87578 89531 26164	$\arccos(1/7)$	
0	.42768 66160 17928 79741	$e^{-x^2} \int_0^x e^{t^2} dt$ at $x = 1.50197 \dots$	35
0	.42772 79326 93978 22132	$-\lambda(0.5)$	8
3	.42782 73002 00522 06247	$\sqrt{47}/2$	
0	.42812 47731 75747 04804	$99^9 \times 10^{-369693100}$	
1	.42828 56857 08569 99960	$\sqrt{51}/5$	
0	.42857 14285 71428 57143	3/7	
403	.42879 34927 35122 60839	e^6	
0	.42911 32348 29972 11386	$\pi^2/23$	

(continued)

Table I (continued)

				Ref.	
0	.42951	46206	07979 54432	$35\pi/256$	
3	.42969	62891	58993 82743	root of $e^x = 9x$ (other is 0.12603 ...)	
1	.43022	68525	99502 03847	$\sqrt{10} - \sqrt{3}$	
0	.43082	53751	83302 36651	$1.5/(e^{1.5} - 1)$	
7	.43131	37586	73811 35185	$e^{7/2} \pi^{1.5}$	10
2	.43170	84074	16106 51465	$24/\pi^2$	
0	.43233	20871	85902 86891	[0, 2, 3, 5, 7, ...] all primes	15
0	.43233	23583	81693 65405	$0.5(1 - e^{-2})$	
1	.43234	40613	89161 01342	[1, 2, 3, 5, 8, ...]	15,31
1	.43240	47758	98300 31123	root of $x e^x = 6$	
0	.43256	27555	31999 56908	root of $3x e^x = 2$	
0	.43301	27018	92219 32338	$\sqrt{3}/4$	
1	.43312	74267	22311 75832	[1, 2, 3, 4, 5, ...]	15
1	.43372	08778	40437 79529	$\sqrt{74}/6$	
0	.43405	75068	91268 48697	$[2, 3, 3, 2, 3, 3, 3, \dots]^{-1}$ See 2.30384 ...	15,17
0	.43425	85459	10664 88219	$(\sqrt{13}-1)/6$	
0	.43429	44819	03251 82765	$\log_{10} e$	
0	.43478	26086	95652 17391	10/23	
0	.43607	82754	78500 59233	root of $x \ln x + \ln(x+1) = 0$	
1	.43614	06616	34507 16496	$\sqrt{33}/4$	
0	.43648	99739	78576 52056	$\psi(1.5) + 0.4$	10
2	.43669	85862	02240 97671	$\sqrt{95}/4$	
0	.43882	45731	17475 65491	$(\pi - \ln 4)/4$	
15	.43888	73585	52583 18360	$(1.5)^{6.75}$	
0	.44005	05857	44933 51596	$J_1(1)$ Bessel Function	
0	.44095	85518	44098 43175	$\sqrt{7}/6$	
2	.44116	41831	83565 55795	$F(-0.5, 2.5)$	36
5	.44137	08371	74265 71961	$-Y_2(0.5)$ Bessel Function	
5	.44139	80927	02653 55178	$\pi \sqrt{3}$	
2	.44175	99106	30499 56961	root of $x^3 + x - 17 = 0$	
1	.44222	05101	85595 71725	$\sqrt{52}/5$	
1	.44224	95703	07408 38232	$3^{1/3}$	
4	.44288	29381	58366 24702	$\pi \sqrt{2}$	
0	.44311	34627	26379 00682	$\sqrt{\pi}/4$	
1	.44326	87912	70373 10763	root of $x^7 - x^6 - x^3 - 1 = 0$	
0	.44327	36152	95609 96112	$\sqrt{13} - \sqrt{10}$	
1	.44337	56729	74064 41127	$\sqrt{75}/6$	
1	.44363	54751	78810 34249	$\operatorname{arsinh} 2$	
4	.44409	72086	57794 42505	$\sqrt{79}/2$	
0	.44451	87335	06706 55715	$-Y_0(0.5)$ Bessel Function	

(continued)

-37-
Table I (continued)

				Ref.	
1	.44466	78610	09766 13366	$e^{1/e}$	
0	*.44504	18679	12628 80858	root of $x^3 - x^2 - 2x + 1 = 0$	
1	.44546	84956	26831 22236	$\arccos(1/8)$	
0	.44605	90584	39617 22674	$J_2(2.5)$ Bessel Function	
1	.44639	74420	39316 22518	[1, 2, 4, 6, 10, ...] terms = p - 1, p = primes	15
1	.44644	13322	48135 18420	$\operatorname{arccot}(1/8)$	
0	.44654	26855	12635 94786	root of $2e^x = 7x$ (other = 1.88859 ...)	
0	.44721	35954	99957 93928	$1/\sqrt{5}$	
2	.44730	48534	14308 61550	$\operatorname{Chi}(1) + \ln 5$	9
2	.44758	07362	33658 2	$-\zeta(2/3)$	8
0	.44827	58620	68965 51724	13/29	
0	.44861	83818	67698 11904	$\pi^2/22$	
0	.44879	89505	12827 60549	$\pi/7$	
16	.44934	06684	82264 36472	$5\pi^2/3$	
3	.44935	88902	59740 41595	[3, 2, 4, 2, 3, 2, 4, 2, 4, 2, 3, 2, 4, 2, 4, 2, 3, 2, 4, 2, 4, 2, 3, 2, ...]	15, 20
2	.44948	97427	83178 09820	$\sqrt{6}$	
0	.45015	81580	78553 03478	$\sqrt{2}/\pi$	
0	.45018	36112	94873 57304	root of $\cos x = 2x$	
2	.45095	39280	15579 63062	root of $x^x = 9$	
0	.45102	68117	96262 43254	$\arccos 0.9$	
0	*.45161	29032	25806 45161	14/31	
3	.45196	75234	71160 35879	$\sqrt{2.5} + \sqrt{3.5}$	
3	.45217	62772	77915 21187	10000 - 3182 π	
0	.45224	74200	41065 49851	$1/2^2 + 1/3^2 + 1/5^2 + \dots$ all primes	
16	*.45262	77655	07230 22474	$\int_0^2 e^{x^2} dx$	
1	*.45296	63145	13557 85075	$\sqrt{19}/3$	
0	.45339	76515	16403 76764	root of $x^3 + 2x - 1 = 0$	
0	*.45359	61214	25577 38777	$\cos 1.1$	
1385	.45573	13670	11089 14091	10 π	
0	.45593	81277	65996 23677	$e^{-\pi/4}$	
1	.45602	19778	56103 65422	$\sqrt{53}/5$	
1	.45616	42461	35908 46097	root of $x^3 + 2x - 6 = 0$	
1	.45679	10310	46906 86919	G(1,2)	
0	.45685	02517	47856 64849	$0.5(\sqrt{7} - \sqrt{3})$	37
1	*.45773	79737	11325 11772	$\sqrt{34}/4$	
0	*.45844	87433	68190 36061	$2e^2/(e^2-1) - \ln(e^2-1)$	
0	*.45862	91841	94307 48350	$J_2(3.5)$ Bessel Function	
0	.45867	51453	87081 89102	$1 - \ln(e-1)$	
2	.45871	41759	99624 64287	root of $x \tan x + 2 = 0$	
2	.45876	97838	34321 83638	$\sqrt{15} - \sqrt{2}$	

(continued)

Table I (continued)

				Ref.
22	.45915	77183 61045 47343	π^e	
1	.45945	53124 53932 72691	$\arccos(1/9)$	
1	.46035	45088 09586 81289	$-\zeta(0.5)$	8
*				
0	.46153	84615 38461 53846	6/13	
9	.46155	77024 83518 21447	$e^{3.5}/3.5$	
1	.46163	21449 68362 34126	root of $\psi(x) = 0$ This root makes $\Gamma(x)$ a minimum	
0	.46199	46090 07087 84991	$\Gamma(9.5) - 119292 = 34459425\sqrt{\pi}/512 - 119292$	
2	.46204	47875 87410 22209	root of $x^3 - 2x - 10 = 0$	
0	.46211	71572 60009 75850	$\tanh 0.5$	
36	.46215	96072 07911 77099	π^π	
1	.46216	36149 76201 27686	$4\pi^2/27$	
2	.46221	44504 49026 18044	$\sqrt{97}/4$	
*				
1	.46249	40645 65353 67673	$\sqrt{77}/6$	
1	.46265	17459 07181 60880	$\int_0^1 e^{x^2} dx$	
*				
0	.46353	08278 50189 08581	$-\tan 10^\circ$	
0	.46364	76090 00806 11621	$\arctan 0.5$	
3	.46410	16151 37754 58705	$\sqrt{12}$	
0	.46428	57142 85714 28571	13/28	
1	.46459	18875 61523 26302	$\pi^{1/3}$	
*				
0	.46552	49803 35071 35839	$(\Gamma(2.5))^{-1}$	44
0	.46619	40770 35411 61438	$\pi^{-2/3}$	
2	.46621	20743 30470 10149	$15^{1/3}$	
4	.46652	82234 71357 35049	$\sqrt{4.5} + \sqrt{5.5}$	
2	.46740	11002 72339 65471	$\pi^2/4$	
1	.46779	92676 22069 54092	$10^{1/6}$	
0	.46784	58690 52490 32381	$0.5(1 + \sqrt{5})(1/2 - 1/3 + 1/5 - 1/8 \dots)$	31
*				
1	.46933	57725 53856 33866	$e^{2\gamma/3}$	10
2	.46941	35036 29365 74181	root of $dF(1,-x)/dx = 0$ See 3.61738 ...	36
1	.46969	38456 69906 85892	$\sqrt{54}/5$	
0	.46998	11619 56636 12471	$\pi^2/21$	
1	.47032	41557 02718 44598	$\tan 1000$	
0	.47058	82352 94117 64706	8/17	
1	.47062	89056 33336 82289	$\arccos 0.1$	
1	.47112	76743 03734 59185	$\operatorname{arccot} 0.1$	
0	.47140	45207 91031 68293	$\sqrt{2}/3$	
1	.47147	23926 70243 06919	$-Y_1(0.5)$ Bessel Function	
*				
1	.47196	01443 87974 47579	$\sqrt{78}/6$	
2	.47206	61623 65220 98290	$\sqrt{55}/3$	
4	.47213	59549 99579 39282	$\sqrt{20}$	
0	.47368	42105 26315 78947	9/19	

(continued)

Table I (continued)

			Ref.
3	.47401 94769 66354 50545	root of $e^x = 9x + 1$	
2	.47468 04362 36304 46261	$G(2,3)$	37
*	2 .47487 37341 52916 33540	$\sqrt{98}/4$	
4	.47522 91068 38273 16796	root of $2x^3 - 30x - 45 = 0$	
0	.47619 04761 90476 19048	10/21	
0	.47693 62762 04469 87338	root of $4 \int_0^x e^{-t^2} dt = \sqrt{\pi}$	
*	0 .47712 12547 19662 43730	$\log_{10} 3$	
5	.47722 55750 51661 13457	$\sqrt{30}$	
1	.47735 43145 53069 95932	$\sqrt{17} - \sqrt{7}$	
*	0 .47826 08695 65217 39130	11/23	
1	.47901 99457 74904 01064	$\sqrt{35}/4$	
*	0 .47942 55386 04203 00027	$\sin 0.5$	
1	.47976 15487 57481 53375	$\arccos (1/11)$	
0	.48045 30139 18201 42467	$(\ln 2)^2$	
*	6 .48074 06984 07860 23097	$\sqrt{42}$	
0	.48121 18250 59603 44750	$\operatorname{arcsinh} 0.5 = \ln(\sqrt{5}+1) - \ln 2$	
1	.48136 57362 19264 80835	$\sqrt{79}/6$	
*	0 .48275 86206 89655 17241	14/29	
1	.48323 96974 19132 58974	$\sqrt{55}/5$	
7	.48331 47735 47882 77117	$\sqrt{56}$	
0	.48383 77646 81979 96327	$-J_0(2.5)$ Bessel Function	
0	.48387 09677 41935 48387	15/31	
1	.48519 19863 12126 29587	$f(4)$	44
*	7 .48547 08605 50344 91266	$1 + 1/2 + 1/3 + 1/4 + \dots + 1/1000$	
0	.48591 55973 33256 66706	$\sqrt{19} - \sqrt{15}$	
0	.48609 12605 85891 07691	$J_2(3)$	
1	.48736 62401 84281 61436	$\arccos (1/12)$	
2	.48746 85927 66549 88684	$\sqrt{99}/4$	
0	.48750 60250 87510 69153	$-\sin 10^{10}$	
0	.48819 76656 09209 75151	$\sqrt{11} - \sqrt{8}$	
1	.48830 22318 99033 38630	root of $x^3 + x^2 + x - 7 = 0$	
1	.48930 65462 65709 14304	$\sqrt{110+50\sqrt{5}}/10$	
44	.48944 22298 58252 34822	$e^{5.5}/5.5$	
0	.48989 79485 56635 61964	$\sqrt{6}/5$	
0	.49012 90717 34273 59586	$(\ln 2)/\sqrt{2}$	
1	.49071 19849 99859 79761	$\sqrt{20}/3$	
0	.49087 38521 23405 19351	$5\pi/32$	
1	.49093 69093 52736 90786	root of $x^4 - 2x^3 + 7x^2 - 14x + 7 = 0$	
0	.49137 86798 43991 45546	$1/\sqrt{\pi+1}$	
2	.49203 33011 71816 56952	root of $x^3 - 3x - 8 = 0$	

(continued)

Table I (continued)

		Ref.	
4 .49340	94579 09064 17531	root of $\tan x = x$	
0 .49348	02200 54467 93094	$\pi^2/20$	
2 .49365	56137 26098 89956	root of $x^3 + x - 18 = 0$	
1 .49379	71861 38073 03960	$\arccos(1/13)$	
2 .49443	82578 49294 25706	$\sqrt{56}/3$	
0 .49457	64013 48641 23503	$e^{-3}E_1(3)$	9
1 .49534	87812 21220 54191	$5^{1/4}$	
5 .49534	91549 29522 86148	$(\sqrt{5} + 1)[1, 1, 2, 3, 5, 8, \dots]$	15, 31
0 .49626	90495 18538 07940	$9e^3/(e^3 - 1)^2$	
4 .49655	61056 01921 67781	$(\ln 2)/(\ln 7 - \ln 6)$	
1 .49666	29547 09576 55423	$\sqrt{56}/5$	
0 .49709	41024 64274 03801	$J_1(2.5)$	
0 .49714	98726 94133 85435	$\log_{10} \pi$	
0 .49766	11325 09476 36708	$(1/\sqrt{\pi}) \int_0^2 e^{-x^2} dx$	
0 .49770	03024 70745 34747	$\ln \zeta(2) = \ln(\pi^2/6)$	8
0 .49788	05081 37478 38330	$-dF(1, x)/dx$ at $x = 0$	36
0 .49807	03596 15231 88783	$Y_0(2.5)$ Bessel Function	
1 .49930	68769 09376 08469	$\arccos(1/14)$	
0 .49998	89547 51500 70728	$(1/\sqrt{\pi}) \int_0^3 e^{-x^2} dx$	
0 .49999	99922 91371 04986	$(1/\sqrt{\pi}) \int_0^4 e^{-x^2} dx$	
0 .49999	99999 99231 27010	$(1/\sqrt{\pi}) \int_0^5 e^{-x^2} dx$	
0 .50024	54622 66794 48360	root of $x^{11} - 2x + 1 = 0$	
0 .50049	31182 86552 25606	root of $x^{10} - 2x + 1 = 0$	
0 .50098	33003 45343 76082	$\sqrt{18} - \sqrt{14}$	
0 .50099	41779 22889 83685	root of $x^9 - 2x + 1 = 0$	
2 .50156	74333 54975 64147	$\text{Shi}(2)$	9
3 .50162	07455 42949 75689	$4321/1234$	
1 .50197	52682 68611 49886		35
0 .50201	70551 78165 51178	root of $x^8 - 2x + 1 = 0$	
0 .50318	85471 52764 36295	$\ln(3\sqrt{3}/\pi)$	
0 .50401	71699 30912 40288	$\sqrt{5} - \sqrt{3}$	
1 .50408	01783 84671 35969	$\arccos(1/15)$	
0 .50408	30082 64222 74070	root of $\psi(-x) = 0$	1
0 .50413	82583 61655 36083	root of $x^7 - 2x + 1 = 0$	
2 .50424	48144 98221 11118	$\tan 10^{11}$	
0 .50536	05102 84157 30697	$\arccos(7/8)$	
1 .50558	94092 74151 68917	$\sqrt{14} - \sqrt{5}$	
3 .50567	48357 14440 56399	root of $2e^x = 19x$ (other is 0.11850 ...)	
1 .50611	76684 31800 47273	$\psi(5) = 25/12 - \gamma$	10
2 .50618	41455 88769 25629	root of $x^x = 10$	

(continued)

Table I (continued)

		Ref.	
0 .50636	56411 09758 79366	-sin 100	
2 .50662	82746 31000 50242	$\sqrt{2\pi}$	
0 .50702	60629 64086 25915	$\eta(1/32)$	8
1 .50825	55649 98405 22843	arccos (1/16)	
0 .50866	03916 42004 13646	root of $x^6 - 2x + 1 = 0$	
1 .50869	15494 46032 13410	$0.25 - \ln(e^{0.25} - 1)$	
2 .50917	84786 58056 78201	cosh($\pi/2$)	
1 .50923	08563 56236 10443	$\sqrt{82}/6$	
1 .50996	68870 54149 93945	$\sqrt{57}/5$	
0 .51037	56726 49745 11960	$Y_0(2)$ Bessel Function	
2 .51058	98795 50407 85288	$\sqrt{18} - \sqrt{3}$	
0 .51182	76717 35918 12875	$J_0(1.5)$ Bessel Function	
1 .51193	88208 47815 38902	arccos (1/17)	
1 .51213	45516 57842 47390	root of $e^x = 3x$ (other is 0.61906 ...)	
1 .51274	53266 18328 62402	root of $x^3 + 3x - 8 = 0$	
9 .51436	44542 22584 92968	$\cot 6^\circ = (3\sqrt{3} + \sqrt{15} + 2\sqrt{10} - 2\sqrt{5} + \sqrt{50 - 10\sqrt{5}})/2$	
1 .51521	21535 13979 14314	arccos (1/18)	
0 .51538	82032 02207 56873	$\sqrt{17}/8$	
* 1 .51598	02276 92820 58968	root of $x^3 + x - 5 = 0$	
0 .51612	90322 58064 51613	16/31	
0 .51652	63491 03788 74150	$\sqrt{10} - \sqrt{7}$	
2 .51661	14784 23583 23241	$\sqrt{57}/3$	
0 .51724	13793 10344 82759	15/29	
* 0 .51755	43501 53671 25670	$\sqrt{17} - \sqrt{13}$	
0 .51763	80902 05041 52470	$\sqrt{1.5} - \sqrt{0.5}$	
* 0 .51791	32265 77134 47378	$(1 - e^{-1.5})/1.5$	
1 .51814	04185 33326 82777	arccos (1/19)	
1 .51829	44859 37831 25971	$3.5^{1/3}$	
1 .51840	55965 24049 81366	$\sqrt{83}/6$	
0 .51879	00636 75884 22191	root of $x^5 - 2x + 1 = 0$	
* 0 .51945	28632 15229 40099	$\pi^2/19$	
2 .51984	20997 89746 32953	$16^{1/3}$	
5 .52007	81102 86310 64960	second zero of $J_0(x)$	
* 1 .52069	06325 74554 92225	$\sqrt{37}/4$	
1 .52077	54699 89126 60457	arccos (1/20)	
0 .52109	53054 93747 36162	sinh 0.5	
1 .52137	97068 04567 56960	root of $x^3 - x - 2 = 0$	
1 .52173	16	c	
0 .52173	91304 34782 60870	12/23	
* 1 .52315	46211 72781 65713	$\sqrt{58}/5$	

Table I (continued)

			Ref.	
1	.52315	92641 70493 48853	$\arccos(1/21)$	
0	.52356	67081 13848 07462	$2(131)/(2\pi)^{13}$	
0	.52359	87755 98298 87308	$\pi/6$	
0	.52380	95238 09523 80952	$11/21$	
1	.52434	52049 84144 36912	root of $xe^x = 7$	
*				
2	.52481	55568 58922 23600	$H(2,3)$	38
*				
2	.52498	10877 17666 92350	root of $(x!)! = x^x$	
1	.52532	61143 77899 46695	$\arccos(1/22)$	
*				
0	.52631	57894 73684 21053	$10/19$	
0	.52704	62766 94729 88867	$\sqrt{10}/6$	
1	.52730	43560 04780 80022	$\arccos(1/23)$	
1	.52752	52316 51946 66886	$\sqrt{21}/3$	
4	.52769	25690 68708 31329	$\sqrt{82}/2$	
4	.52786	29864 86817 06573	$F(4,5)$	36
0	.52786	40450 00420 60718	$5 - \sqrt{20}$	
1	.52911	75943 72318 75404	$\arccos(1/24)$	
0	.52915	02622 12918 11810	$\sqrt{7}/5$	
0	.52941	17647 05882 35294	$9/17$	
0	.52995	53906 93618 99119	$(2 - \sqrt{1.25 + 0.5})^2$	
1	.53047	18187 94483 45463	$\sqrt{19} - \sqrt{8}$	
*				
1	.53078	56524 40907 69301	$\arccos(1/25)$	
1	.53101	41215 40153 55031	$\text{Chi}(1) + \ln 2$	9
*				
1	.53208	88862 37956 07040	root of $x^3 - 3x + 1 = 0$	
1	.53218	25076 09544 00267	$[1, \sqrt{2}, \sqrt{3}, \sqrt{4}, \dots]$	15
1	.53232	52993 87568 29687	$\arccos(1/26)$	
1	.53375	08169 82804 61014	$\arccos(1/27)$	
1	.53503	20356 69139 50246	$\cot 10^\circ$	
1	.53507	44443 96817 82381	$\arccos(1/28)$	
*				
1	.53537	05088 36252 98503	$1 + 1/3 + 1/8 + 1/21 + \dots$	31
0	.53539	81633 97448 30962	$(\pi-1)/4$	
3	.53553	39059 32737 62200	$\sqrt{50}/2$	
0	.53571	42857 14285 71429	$15/28$	
3	.53589	46654 95364 37098	$F(3,4)$	36
0	.53589	83848 62245 41295	$4 - \sqrt{12}$	
1	.53622	91495 73721 63515	$\sqrt{59}/5$	
1	.53630	67308 33217 79155	$\arccos(1/29)$	
1	.53659	07428 82147 88500	$\sqrt{85}/6$	
1	.53745	68175 33594 53224	$\arccos(1/30)$	
*				
0	.53807	95069 12768 41914	$e^{-1} \int_0^1 e^{t^2} dt$	35
0	.53846	15384 61538 46154	$7/13$	

(continued)

Table I (continued)

			Ref.
1	.53853 26651 26649 65739	$\arccos(1/31)$	
2	.53859 10352 87969 42855	$\sqrt{58}/3$	
1	.53884 17685 87626 70129	$\sin 36^\circ + \cos 18^\circ = 0.5 \sqrt{5 + \sqrt{20}}$	
0	.53921 29	$2(1/2 - 1/3 + 1/5 - 1/7 + \dots)$ all primes	
1	.53933 89262 36506 33160	$(6/\pi)^{2/3}$	
8	.53973 42226 73567 06546	πe	
0	.54030 23058 68139 71740	$\cos 1$	
*	.54041 95002 70584 15544	$\arctan 0.6$	
1	.54083 64694 62489 44560	$H(1,2)$	38
0	.54104 42246 35181 69847	$e^{-x^2} \int_0^x e^{t^2} dt$ at $x = 0.92413 \dots$	35
1	.54110 35007 42244 11256	$\sqrt{38}/4$	
0	.54132 48546 12918 10898	$\ln(e-1)$	
*	.54235 10453 56920 04828	$\cot 10$	
*	.54264 13577 73526 42429	root of $e^x = 5x$ (other is 0.25917 ...)	
1	.54308 06348 15243 77848	$\cosh 1$	
2	.54357 84374 41913 21748	root of $x^3 + x - 19 = 0$	
0	.54368 90126 92076 36157	root of $x^3 + x^2 + x - 1 = 0$	
0	.54382 36621 19049 15584	$0.5d^2((1+x)F(1,x))/dx^2$ at $x = -1$	36
1	.54387 34439 71181 14165	$e^{\log 10^e}$	
0	.54402 11108 89369 81340	$-\sin 10$	
1444	.54512 28927 14154 71376	$\int_0^3 e^{x^2} dx$	
1	.54560 30825 82617 29209	$\sqrt{86}/6$	
0	.54584 34494 48699 56424	$\sin 10^9$	
2	.54647 90894 70325 37230	$8/\pi$	
0	.54831 13556 16075 47882	$\pi^2/18$	
0	.54838 70967 74193 54839	$17/31$	
*	.54873 93572 57748 37798	$\sinh \pi$	
11	.54919 33384 82966 75407	$\sqrt{60}/5$	
0	.54930 61443 34054 84570	$\operatorname{arctanh} 0.5 = 0.5 \ln 3$	
2	.54950 97567 96392 41501	$\sqrt{26}/2$	
0	.54953 93129 81644 82234	$-\ln \gamma$	10
7	.54983 44352 70749 69724	$\sqrt{57}$	
*	.55049 02431 85492 96762	$F(2,3)$	36
0	.55051 02572 16821 90180	$3 - \sqrt{6}$	
3	.55051 30347 23369 42431	$(e-1)/\sqrt{e^2 - 3e + 1}$	
0	.55132 88954 21792 04951	$\sqrt{3}/\pi$	
0	.55172 41379 31034 48276	$16/29$	
0	.55277 07983 92566 64152	$\sqrt{11}/6$	
*	.55329 47556 65112 21720	$(\ln 2)/(\ln 7 - \ln 2)$	
2	.55371 26827 48209 05294	$2^{1/4} \cdot 3^{1/9} \cdot 4^{1/16} \cdot 5^{1/25} \dots$	

(continued)

Table I (continued)

			Ref.	
2	.55414	92186 00773 18048	root of $x^3 - 3x - 9 = 0$	
0	.55448	7385	$\eta(0.25)$	8
1	.55456	31755 14802 50759	$\sqrt{87/6}$	
4	.55521	67895 72149 44097	$\sqrt{83/2}$	
2	.55560	46121 00820 61525	root of $x^x = 11$	
0	.55635	85558 52017 03606	$\sqrt{15} - \sqrt{11}$	
1	.55740	77246 54902 23051	$\tan 1$	
6	.55743	85243 02000 65234	$\sqrt{43}$	
0	.55793	65079 10099 64199	$J_1(1.5)$ Bessel Function	
0	.55834	96378 11241 84656	$-\tan 10^{10}$	
0	.55859	93153 43562 43597	$\arctan(5/8)$	
0	.55901	69943 74947 42410	$\sqrt{5}/4$	
0	.55938	10750 43469 93054	$\log_{10} \Gamma(1/4)$	
1	.55961	04694 62369 34997	root of $x^x = 2$	
2	.56038	19159 56202 72526	$\sqrt{59/3}$	
1	.56112	48985 32504 71838	$\sqrt{5} [0,1,2,3,5,8, \dots]$	15,31
1	.56124	94995 99599 55146	$\sqrt{39}/4$	
0	.56145	94835 66885 16982	$e^{-\gamma}$	10
1	.56204	99351 81330 87883	$\sqrt{61}/5$	
0	.56237	90762 90702 99108	$\cos 1000$	
2	.56341	65572 58579 75413	$-\text{ber}(4)$ Bessel Function	
1	.56347	19199 41143 18486	$\sqrt{22}/3$	
0	.56356	92042 25515 64249	root of $\cos x = 1.5x$	
2	.56377	89067 28377 25790	$-\tan 10^8$	
0	.56418	95835 47756 28695	$1/\sqrt{\pi}$	
0	.56464	24733 95035 35720	$\sin 0.6$	
0	.56521	73913 04347 82609	$13/23$	
0	.56568	54249 49238 01952	$\sqrt{8}/5$	
5	.56631	60017 80235 20425	$\Gamma(1/6)$	
0	.56714	32904 09783 87300	root of $xe^x = 1$	
5	.56776	43628 30021 92212	$\sqrt{31}$	
5	.56832	79968 31707 84528	$\pi^{1.5}$	
0	.56886	44810 05783 10728	$\sqrt{0.1(1+\sqrt{5})}$	
1	.56894	64030 52382 26735	root of $x^3 + 2x - 7 = 0$	
0	.56982	33073 11909 85389	$\psi(3/2) + 8/15$	10
6	.56992	96911 76507 03401	$\sum_{n=1}^{400} 1/n$	
1	.57014	73121 96054 36291	root of $x^5 - x^4 - x^2 - 1 = 0$	
3	.57071	42142 71424 99900	$\sqrt{51}/2$	
1	.57079	63267 94896 61923	$\pi/2$	
2	.57128	15906 58235 35545	$17^{1/3}$	

(continued)

Table I (continued)

		Ref.
0 .57142 85714 28571 42857	4/7	
0 .57175 28338 25277 7	$n(1/3)$	8
1 .57233 01886 76100 63522	$\sqrt{89}/6$	
* 1 .57443 38335 77736 48867	$\coth 0.75$	
1 .57480 15748 02362 20394	$\sqrt{62}/5$	
5 .57494 15247 60880 62397	e^{-1}	
* 1 .57671 32048 60013 67265	$(7 - \ln 2)/4$	
0 .57672 48077 56873 38720	$J_1(2)$ Bessel Function	
0 .57692 30769 23076 92308	15/26	
3 .57715 20639 57297 21841	root of $e^x = 10x$ (other is 0.11183 ...)	
0 .57721 56649 01532 86061	γ Euler's constant	10
0 .57735 02691 89625 76451	$\tan 30^\circ = \sqrt{3}/3$	
4 .57736 52334 26696 54692	$(\sqrt{23} + \sqrt{19})/2$	
0 .57739 54235 01385 16941	$10^9 - 318309886\pi$	
0 .57792 17972 67618 74780	$1/1.2 + 1/3.5 + 1/8.13 + \dots$	31
1 .57822 04639 37299 40411	root of $x^3 + x^2 + x - 8 = 0$	
17 .57848 01752 54923 78127	$\pi^2 e^{\gamma}$	10
0 .57894 73684 21052 63158	11/19	
0 .57937 97266 05562 05358	$\sqrt{14} - \sqrt{10}$	
* 0 .58056 49647 69962 27170	$\pi^2/17$	
0 .58064 51612 90322 58065	18/31	
1 .58113 88300 84189 66600	$\sqrt{2.5}$	
0 .58197 67068 69326 42439	$1/(e-1)$	
2 .58198 88974 71611 25679	$\sqrt{60}/3$	
0 .58224 05264 65012 50590	$\pi^2/12 - 0.5(\ln 2)^2$	
4 .58257 56949 55840 00659	$\sqrt{21}$	
0 .58281 16438 65811 38604	root of $e^{-1.5x} = 1 - x$	
0 .58312 18080 61637 56028	$2\beta(2)/\pi$	8
1 .58457 39827 86522 55559	$\sqrt{11} - \sqrt{3}$	
1 .58496 25007 21156 18145	$(\ln 3)/\ln 2$	
1 .58552 78323 75576 69498	$F(1,2)$	36
1 .58553 09969 09800 70521	root of $3x^3 - 5x^2 + 13x - 20 = 0$	
0 .58578 64376 26904 95120	$2 - \sqrt{2}$	
18 .58591 27846 36851 18073	$\pi \sqrt{35}$	
0 .58620 68965 51724 13793	17/29	
* 0 .58721 39151 56929 07668	$-\tan 100$	
1 .58740 10519 68199 47475	$4^{1/3}$	
1 .58745 07866 38754 35430	$\sqrt{63}/5$	
0 .58778 52522 92473 12917	$\sin 36^\circ = 0.25 \sqrt{10 - 2\sqrt{5}}$	
0 .58823 52941 17647 05882	10/17	

(continued)

Table I (continued)

				Ref.
0	.58887	39525 48933 50767	[0,1,1,2,3,5, ...]	15,31
0	*.58904	86225 48086 23221	$3\pi/16$	
1	.58952	08879 65480 63190	$\sqrt{5} (1 - 1/2 + 1/3 - 1/5 + 1/8 \dots)$	31
1	.58989	86690 28242 74859	$\sqrt{91}/6$	
5	.59016	99437 49474 24102	$2.5 \sqrt{5}$	
0	.59061	61091 49641 24974	$1/(1 + \ln 2)$	
0	*.59063	68546 37329 06338	$\sum_{n=1}^{\infty} (n+1)/((n+1)!)^2$	
2	.59170	41241 91859 43632	root of $x^3 + x - 20 = 0$	
11	.59195	32755 21520 62775	$\cosh \pi$	
0	.59235	91472 46400 40119	$\sqrt{8} - \sqrt{5}$	
0	.59238	48471 88388 98367	$e^{-\pi/6}$	
1	.59245	04340 36251 38167	$\sqrt{6 - \sqrt{12}}$	
0	.59263	27182 01636 19710	Lehmer's constant	14
4	*.59299	01586 00667 35510	$e^{2.4}/2.4$	
1	*.59362	42600 40040 09232	root of $e^{-x} = 1 - 0.5x$	
3	*.59480	40682 81408 36715	$(\sqrt{11} + \sqrt{15})/2$	
0	*.59519	05728 67755 35181	$\ln(\pi\gamma)$	
0	*.59607	16379 83321 52311	root of $x^3 + 3x - 2 = 0$	
0	*.59634	73623 23194 07434	$eE_1(1)$	9
1	*.59688	93760 54694 55590	$\sqrt{18} - \sqrt{7}$	
2	.59807	62113 53315 94029	$\sqrt{27}/2$	
54	.59815	00331 44239 07811	e^4	
1	.59861	05077 70906 51387	$\sqrt{23}/3$	
0	.59907	01173 67796 10372	$\pi/2\tilde{\omega} = \Gamma^2(3/4)/\sqrt{2\pi}$	
0	.59915	26087 92162 50764	$\sqrt{20} - \sqrt{15}$	
1	.60078	10593 58212 17162	$\sqrt{41}/4$	
0	.60092	52125 77331 54885	$\sqrt{13}/6$	
0	.60119	12609 63894 94217	$dF(1,x)/dx$ at $x = -4$	36
0	.60205	99913 27962 39043	$\log_{10} 4$	
0	*.60318	05544 88537 01423	$\tanh(2\pi/9)$	
2	.60341	65586 35551 46471	$\sqrt{61}/3$	
0	.60489	86434 21630 37025	$\eta(0.5)$	8
0	*.60513	36525 03344 58174	$\int_0^{\infty} e^{-x^2}/(1+x) dx$	
3	*.60555	12754 63989 29312	$\sqrt{13}$	
1	.60581	19963 20177 59603	root of $xe^x = 8$	
0	.60641	69900 43560 87078	$1/(2(1/2 + 1/5 + 1/13 \dots))$	31
0	.60653	06597 12633 42360	$1/\sqrt{e}$	
0	.60714	28571 42857 14286	$17/28$	
1	.60727	51268 32159 16596	$\sqrt{93}/6$	
0	.60762	52185 10765 09842	$(\sqrt{7} + 1)/6$	

(continued)

Table I (continued)

		Ref.
0 .60797 09085 73584 76979	H(1,0)	38
0 .60869 56521 73913 04348	14/23	
1 .60899 78099 88855 61183	$\sqrt{x+2}$ $x = [0,1,1,2,3,5, \dots]$	15,31
1 .60943 79124 34100 37460	ln 5	
* 1 .60969 54940 16668 75627	root of $x^3 + 3x - 9 = 0$	
2 .60975 60975 60975 60976	321/123	
4 .60977 22286 46443 65500	$\sqrt{85}/2$	
* 0 .61072 59643 89208 61654	arctan 0.7	
* 0 .61123 87023 76889 49819	$-\sin 10^{12}$	
* 0 .61237 24356 95794 52455	$\sqrt{6}/4$	
1 .61245 15496 59709 93047	$\sqrt{65}/5$	
* 2 .61288 78647 17544 75441	root of $x^3 - 3x - 10 = 0$	
0 .61290 32258 06451 61290	19/31	
0 .61370 56388 80109 38117	$2 - \ln 4$	
3 .61495 04270 87530 62968	root of $e^x = 10x + 1$	
0 .61538 46153 84615 38462	8/13	
7 .61577 31058 63908 28566	$\sqrt{58}$	
1 .61589 32858 05443 00469	$\sqrt{94}/6$	
0 .61685 02750 68084 91368	$\pi^2/16$	
0 .61724 15567 66732 16665	$\sqrt{19} - \sqrt{14}$	
3 .61738 26539 27090 07757	$-F(1,x)$ at $x = -2.46941 \dots$ (maxF)	36
0 .61740 81041 90682 66648	$-Y_2(2)$ Bessel Function	
5 .61757 87461 32480 13695	$(c+1)/(c-1)$ $c = [1,2,3,4, \dots]$	15
1 .61803 39887 49894 84820	$(1 + \sqrt{5})/2$ $\tau =$ golden mean	
2 .61836 35541 01885 64632	$f(2)$	44
1 .61899 31866 06232 86241	$\sqrt{\pi^2 + 16}/\pi$	
0 .61904 76190 47619 04762	13/21	
0 .61906 12867 35945 11215	root of $e^x = 3x$ (other is 1.51213 ...)	
1 .62018 51746 01965 05774	$\sqrt{42}/4$	
0 .62068 96551 72413 79310	18/29	
2 .62071 56825 36181 16795	root of $F(1,x) = 2$	36
2 .62074 13942 08896 60714	$18^{1/3}$	
1 .62113 89382 77404 34310	$16/\pi^2$	
0 .62144 96242 35813 35764	$\int_0^\infty e^{-x} dx / (1 + x^2)$	
0 .62160 99682 70664 45648	cos 0.9	
2 .62205 75542 92119 81046	$\tilde{\omega} = \Gamma^2(1/4)/\sqrt{8\pi}$ lemniscate constant	1
* 0 .62322 52401 40230 51339	$1 - 1/3 - 1/5 + 1/7 + 1/9 \dots = (\ln(1 + \sqrt{2}))/\sqrt{2}$	4
5 .62341 32519 03490 80395	$10^{0.75}$	
* 0 .62360 95644 62323 56426	$\sqrt{14}/6$	
0 .62432 99885 43550 87099	$\int_0^\infty \exp(-E_1(x) - x) dx$	9

(continued)

Table I (continued)

		Ref.	
1	.62446 57241 34827 31781	$\sqrt{95}/6$	
2	.62466 92913 37270 33990	$\sqrt{62}/3$	
1	.62480 76809 27192 07209	$\sqrt{66}/5$	
5	.62556 05480 42800 00945	$10^{12} - 318309886182 \pi$	
3	.62560 99082 21908 31193	$\Gamma(1/4)$	
2	.62684 81359 71796 25871	$\sqrt{19} - \sqrt{3}$	
3	.62686 04078 47018 76767	$\sinh 2$	
3	.62759 87284 68435 70119	$2\pi/\sqrt{3} = \Gamma(1/3) \cdot \Gamma(2/3)$	
*	0 .62831 85307 17958 64769	$\pi/5$	
*	0 .62996 05249 47436 58238	$2^{-2/3}$	
*	0 .63070 47909 09732 81579	$1/F(1,2)$	36
*	0 .63092 97535 71457 43710	$(\ln 2)/\ln 3$	
0	.63157 03587 43543 09510	$\log_{10} 99^9 - 3696 93099$	
0	.63157 89473 68421 05263	$12/19$	
11	.63172 83965 67448 92914	$\Gamma(4.5) = 105 \sqrt{\pi}/16$	
0	.63212 05588 28557 67840	$1 - 1/e$	
0	.63245 55320 33675 86640	$\sqrt{0.4}$	
1	.63252 69194 38152 84477	$2^{1/\sqrt{2}}$	
3	.63293 02425 07901 63424	$-\text{ber}(7)$ Bessel Function	
1	.63299 31618 55452 06546	$\sqrt{24}/3$	
6	.63324 95807 10799 69823	$\sqrt{44}$	
*	1 .63436 52930 13543 32337	root of $x^3 + x - 6 = 0$	
0	.63458 99303 70878 93904	$\int_0^4 e^{x^2} dx - 1149400$	
0	.63514 89523 87287 31921	$\tanh 0.75$	
0	.63516 63546 04271 20721	C_3	23
0	.63567 44903 91564 48945	$\sqrt{12} - \sqrt{8}$	
0	.63617 77546 64319	$\eta(2/3)$	8
0	.63661 97723 67581 34308	$2/\pi$	
4	.63680 92477 47851 87626	$\sqrt{86}/2$	
1	.63691 53687 07627 18877	$\sqrt{15} - \sqrt{5}$	
1	.63707 05543 74489 99399	$\sqrt{67}/5$	
0	.63708 94116 55295 85329	$\sqrt{18} - \sqrt{13}$	
*	1 .63852 84199 70363 31877	root of $e^x = \pi x$	
2	.63926 97253 48986 12222	$\psi(14.5)$	9
0	.63935 34650 40353 93971	$0.75 - \ln(e^{0.75} - 1)$	
1	.63935 96310 75500 16309	$\sqrt{43}/4$	
3	.64005 49446 40259 13555	$\sqrt{53}/2$	
*	0 .64110 10564 59326 44776	$5 - \sqrt{19}$	
1	.64147 63002 99350 78696	$\sqrt{97}/6$	
4	.64158 88336 12778 89241	$10^{2/3}$	

(continued)

Table I (continued)

		Ref.
0 .64194 48385 28826 41030	$1/2 + 1/5 - 1/7 + 1/11 - 1/13 + \dots$	24
0 .64285 71428 57142 85714	$9/14$	
* 0 .64350 11087 93284 38680	$\arcsin 0.6 = \arccos 0.8 = \arctan 0.75$	
0 .64359 42529 05582 62474	$\sqrt{\sqrt{2} - 1}$	
1 .64370 88302 53389 29521	$\sqrt{20} - \sqrt{8}$	
0 .64400 35777 63146 82613	$(10 + \sqrt{5})/19$	
0 .64421 76872 37691 05367	$\sin 0.7$	
3 .64463 01496 02875 41660	root of $e^x = 10.5x$ (other is 0.10587 ...)	
1 .64493 40668 48226 43647	$\pi^2/6 = \zeta(2)$	8
0 .64516 12903 22580 64516	$20/31$	
0 .64532 22121 62633 36540	$dF(1,x)/dx$ at $x = 2$	36
0 .64549 72243 67902 81420	$\sqrt{15}/6$	
2 .64575 13110 64590 59050	$\sqrt{7}$	
0 .64705 88235 29411 76471	$11/17$	
0 .64836 08274 59086 67128	$\tan 10$	
1 .64872 12707 00128 14685	\sqrt{e}	
* 1 .64903 03148 13849 13628	$2(1/2 + 1/5 + 1/13 + \dots)$	31
* 1 .64924 22502 47064 21993	$\sqrt{68}/5$	
13 .64953 75082 86059 76953	$e^4/4$	
0 .64962 95149 53458 99316	$(\pi/6)^{2/3}$	
1 .64991 58227 68610 89027	$\sqrt{98}/6$	
1 .65062 91914 39388 21888	root of $x^3 - 2x^2 + 3x - 4 = 0$	
* 1 .65096 36244 47313 34194	$4.5^{1/3}$	
* 0 .65145 22021 45141 28859	$\tan 10^9$	
0 .65217 39130 43478 26087	$15/23$	
* 0 .65266 37623 34791 30689	$[0, \sqrt{1}, \sqrt{2}, \sqrt{3}, \sqrt{4}, \dots]$	15
* 8 .65372 79129 11012 21695	third zero of $J_0(x)$	
0 .65384 61538 46153 84615	$17/26$	
0 .65517 24137 93103 44828	$19/29$	
0 .65579 42026 32672 43565	$\tanh(\pi/4)$	
* 5 .65685 42494 92380 19521	$\sqrt{32}$	
0 .65797 36267 39290 57459	$\pi^2/15$	
1 .65831 23951 77699 92456	$\sqrt{11}/2$	
* 0 .65900 40104 79905 96277	$\sqrt{17} - \sqrt{12}$	
0 .66016 18158 46869 57393	C_2 Twin-Prime Constant	23
2 .66039 90584 63684 99043	root of $e^x = 5x + 1$	
1 .66080 24397 70551 75806	root of $x^3 + x^2 + x - 9 = 0$	
1 .66132 47725 83614 97052	$\sqrt{69}/5$	
0 .66143 78277 66147 64763	$\sqrt{7}/4$	
1 .66164 65170 15796 32897	$\frac{47}{2} p = \text{primes}$	

(continued)

			Ref.
1	.66167 54852 23921 27559	$15\sqrt{\pi}/16$	
156	.66187 97754 94085 60910	$e^7/7$	
63	.66197 72367 58134 30755	$200/\pi$	
0	.66332 49580 71079 96982	$\sqrt{11}/5$	
4	.66368 95265 44407 52278	$\sqrt{87}/2$	
*	0 .66467 01940 89568 51024	$3\sqrt{\pi}/8$	
14	.66482 84004 99333 52735	e^K K = Khintchine's Constant	16
*	2 .66514 41426 90225 18865	$2\sqrt{2}$	
2	.66840 16487 21944 86734	$19^{-1/3}$	
0	.66913 06063 58858 21383	$\sin 42^\circ = (1/16)(2 - 2\sqrt{5} + (1 + \sqrt{5})\sqrt{30 - 6\sqrt{5}})$	
1	.67024 46969 62733 02858	root of $x^3 + 2x - 8 = 0$	
0	.67048 27097 90073 28104	$e^{-2}\text{Ei}(2)$	9
0	.67087 34792 90809 25861	$\sqrt{11} - \sqrt{7}$	
1	.67100 65843 25317 16521	$(\sum_{n=0}^{\infty} 1/a_n)^{1/2}$	33
9	.67120 51499 00332 24487	root of $xe^x = x^5 + 5x^4 + 20x^3 + 60x^2 + 120x + 120$	
0	.67144 13508 01757 63664	$0.75/(e^{0.75} - 1)$	
1	.67169 98816 57160 96975	root of $x^3 - x - 3 = 0$	
0	.67331 36249 15991 91291	$(f(4))^{-1}$	44
1	.67332 00530 68151 09596	$\sqrt{70}/5$	
1	.67361 58828 34482 45162	$\sqrt{17} - \sqrt{6}$	
3	.67423 46141 74767 14730	$\sqrt{54}/2$	
*	0 .67448 97501 96081 74320	root of $\int_0^x e^{-t^2/2} dt = \sqrt{2\pi}$	
0	.67474 09422 23552 66306	$\arctan 0.8$	
*	0 .67513 15329 37031 64721	$\arcsin(5/8)$	
*	2 .67648 43396 28345 10884	$-\cot 10^6$	
*	1 .67705 09831 24842 27231	$\sqrt{45}/4$	
0	.67741 93548 38709 67742	$21/31$	
0	.67857 14285 71428 57143	$19/28$	
2	.67893 85347 07747 63366	$\Gamma(1/3)$	
1	.67901 64197 85598 19545	root of $xe^x = 9$	
*	0 .68012 21323 34869 81113	$\cot 1000$	
*	7 .68114 57478 68608 17577	$\sqrt{59}$	
0	.68163 87600 23334 16673	$\sin 0.75$	
1	.68179 28305 07429 08606	$2^{0.75}$	
*	0 .68232 78038 28019 32737	root of $x^3 + x - 1 = 0$	
29	.68263 18205 15320 68422	$e^5/5$	
0	.68278 40632 55295 68147	$\pi^{-1/3}$	
0	.68330 78341 08756 36254	$1.5e^{1.5}/(e^{1.5} - 1) - \ln(e^{1.5} - 1)$	
0	.68337 52096 44600 15089	$4 - \sqrt{11}$	
0	.68421 05263 15789 47368	$13/19$	

(continued)

Table I (continued)

		Ref.
0 .68438 69417 81919 68240	$-J_0(5.5)$ Bessel Function	
0 .68472 47885 63157 12330	$(\ln 2) \cdot (\ln K)$	16
1 .68522 99546 35271 72613	$\sqrt{71}/5$	
2 .68545 20010 65306 44531	K Khintchine's constant	16
4 .68555 77202 82967 79461	$\sqrt{5} + \sqrt{6}$	
0 .68718 42709 36276 75830	$\sqrt{17}/6$	
2 .68741 92494 32849 88412	$\sqrt{65}/3$	
1 .68809 17949 64468 60062	$e^{\pi/6}$	
1 .68887 63346 63839 58941	$E_1(3) + \gamma + \ln 3$	9,10
0 .68965 51724 13793 10345	20/29	
0 .69024 44509 82781 75927	$\sum_{k=2}^{\infty} (-1)^k / \sqrt{\ln k}$	
4 .69041 57598 23429 55457	$\sqrt{22}$	
0 .69137 29041 10001 75650	[0,1,2,4,6, ...] terms = p - 1 p = primes	15
0 .69220 06275 55346 35387	$e^{-1/e}$	
0 .69230 76923 07692 30769	9/13	
2 .69258 24035 67252 01563	$\sqrt{29}/2$	
0 .69282 03230 27550 91741	$\sqrt{12}/5$	
0 .69314 71805 59945 30942	$\ln 2$	
4 .69409 11329 74174 57644	2 nd root of $\cos x \cosh x = -1$	
3 .69452 80494 65325 11362	$e^2/2$	
6 .69517 89743 95889 24698	$e^3/3$	
7 .69529 89809 71184 57326	$\pi \sqrt{6}$	
1 .69558 24957 81317 03477	$\sqrt{46}/4$	
2 .69562 07695 59862 05742	root of $x^6 - 6x^4 - 7x^2 - 16 = 0$	
0 .69565 21739 13043 47826	16/23	
0 .69670 67093 47165 42092	$\cos 0.8$	
2 .69682 22144 96180 00677	root of $e^x = 5.5x$ (other is 0.22849 ...)	
1 .69705 62748 47714 05856	$\sqrt{72}/5$	
0 .69717 48832 35066 06877	$e^{-1} \text{Ei}(1)$	9
0 .69777 46579 64007 98201	[0,1,2,3,4,5, ...]	15
1 .69815 62788 97228 44669	[1,1,2,3,5,8, ...]	15,31
0 .69816 21154 38393 90353	[0,1,2,3,5,7, ...] terms are primes	15
0 .69816 21154 38393 93086	[0,1,2,3,5,7, ...] terms are twin primes	15
1 .69888 54898 46329 75803	root of $x^3 + 3x - 10 = 0$	
0 .69897 00043 36018 80479	$\log_{10} 5$	
1 .69967 31711 97594 94334	$\sqrt{26}/3$	
1 .70195	$1/3 + 1/5 + 1/7 + 1/11 + 1/13 + \dots 1/p + 1/(p+2) \dots$ twin primes	13
1 .70295 69194 26469 21610	$-\cot 100$	
1 .70349 91708 35587 71396	$0.5e^{0.5}/(e^{0.5} - 1) - \ln(e^{0.5} - 1)$	
0 .70416 99604 375	$\int_1^{\infty} x^{-x} dx$	2

(continued)

Table I (continued)

			Ref.
0 .70417 80336 18447 62322	$dF(1,x)/dx$ at $x = 3$		36
0 .70477 09230 10457 97247	$(\pi - \sqrt{3})/2$		
0 .70497 17429 34954 18706	$\pi^2/14$		
0 .70588 23529 41176 47059	$12/17$		
1 .70611 76684 31800 47273	$\psi(6) = 137/60 - \gamma$		10
0 .70710 67811 86547 52440	$\sqrt{0.5}$		
0 .70723 60838 12211 65251	$1.5 - F(1,0)$		36
2 .70754 36363 22236 03677	$10^7 - 3183098 \pi$		
2 .70801 28015 45320 12015	$\sqrt{66}/3$		
3 .70809 92435 47831 47436	$\sqrt{55}/2$		
6 .70820 39324 99369 08923	$\sqrt{45}$		
* 3 .70853 11562 71033 51157	root of $e^x = 11x$ (other is 0.10052 ...)		
1 .70880 07490 63506 23357	$\sqrt{73}/5$		
2 .70889 20632 44565 50102	$\sqrt{17} - \sqrt{2}$		
1 .70951 12913 51454 77698	$(\ln 2)/(\ln 3 - \ln 2)$		
0 .70967 74193 54838 70968	$22/31$		
0 .70980 34428 61291 31464	$\xi_2 = [0, 2^{F_0}, 2^{F_1}, 2^{F_2}, \dots]$ Roth number		15,31
1 .70997 59466 76696 98935	$5^{1/3}$		
0 .71070 56860 39037 55318	$\sqrt{15} - \sqrt{10}$		
0 .71085 53514 29328 41689	$1 - 1/2 + 1/3 - 1/5 + 1/8 \dots = \phi_2$		32
* 6 .71144 10833 21150 45413	root of $x = 1 + 3 \ln x$		
* 4 .71238 89803 84689 85769	1.5π		
24 .71278 31686 78274 75278	$-bei(9)$ Bessel Function		
0 .71278 79173 85201 23380	$\sqrt{10} - \sqrt{6}$		
1 .71314 76324 76082 96174	$\sqrt{19} - \sqrt{7}$		
1 .71391 36501 00261 03123	$\sqrt{47}/4$		
0 .71428 57142 85714 28571	$5/7$		
2 .71441 76165 94906 57152	$20^{1/3}$		
* 0 .71653 13105 73789 25043	$e^{-1/3}$		
1 .71673 34350 78240 46053	$\ln \Gamma(1/6)$		
3 .71681 46928 20413 52307	$10 - 2\pi$		
4 .71699 05660 28301 90566	$\sqrt{89}/2$		
* 0 .71735 60908 99522 76163	$\sin 0.8$		
0 .71743 89352 14300 80467	$\sqrt{6} - \sqrt{3}$		
2 .71828 18284 59045 23536	e		
0 .71882 99996 21624 50542	$\arctan (7/8)$		
* 1 .72046 50534 08525 35435	$\sqrt{74}/5$		
* 0 .72111 02550 92797 85862	$\sqrt{13}/5$		
0 .72197 19140 50018 32487	$\sqrt{35}/2 - \sqrt{5}$		
0 .72273 42478 13415 61118	$\arccos 0.75$		

(continued)

Table I (continued)

		Ref.
0 .72360 12545 58267 65936	$\sqrt{\pi/6}$	
* 0 .72406 16609 66310 46641	$4e^2/(e^2 - 1)^2$	
0 .72413 79310 34482 75862	21/29	
* 0 .72548 88276 11924 01977	$\sqrt{12} - \sqrt{7.5}$	
0 .72586 13577 66226 25705	root of $xe^x = 1.5$	
0 .72648 31572 56778 92537	$\sqrt{19}/6$	
0 .72654 25280 05360 88590	$\sqrt{5 - \sqrt{20}}$	
* 3 .72776 54920 37194 11263	F(1,5)	36
0 .72797 36058 52580 99272	$\sqrt{85}/3 - \sqrt{22}/2$	
0 .72798 03504 85931 03575	$2 - \sqrt{0.5} \sqrt{5 + 0.5}$	
0 .72818 24660 65734 55093	$\Gamma(1/3)/(1 + \Gamma(1/3))$	
0 .72825 66173 92955 77027	$\sqrt{63}/2 - \sqrt{42}/2$	
0 .72826 22466 74313 39204	$\sqrt{48}/3 - \sqrt{10}/2$	
0 .72836 56203 94719 38036	$\sqrt{5/3\pi}$	
2 .72845 09239 57483 32332	$\sqrt{67}/3$	
0 .72875 76793 51812 51410	$(2 \ln \pi)/\pi$	
0 .72920 95053 54607 91116	$(\sqrt{43} - \sqrt{26})/2$	
4 .73004 07448 62704 02602	first root of $\cos x \cosh x = 1$	
0 .73047 85682 25638 00723	$\sqrt{20} - \sqrt{14}$	
0 .73076 92307 69230 76923	19/26	
0 .73108 18074 88100 63843	$2\pi^2/27$	
1 .73123 40490 66756 08883	1.2/ln 2	
0 .73168 88688 73820 88631	cos 0.75	
1 .73205 08075 68877 29353	$\sqrt{3}$	
0 .73281 51017 86506 59164	arctan 0.9	
0 .73293 55988 79427 74087	$(\ln 10)/\pi$	
0 .73300 68312 36957 22280	root of $x^4 - 2x^3 + 7x^2 - 14x + 7 = 0$	
0 .73370 05501 36169 82735	$\pi^2/8 - 0.5$	
0 .73399 82388 94925 20720	$dF(1,x)/dx$ at $x = 4$	36
0 .73535 59382 40456 41660	$1/(1/2 + 1/3 + 1/5 + 1/8 + \dots)$	31
0 .73575 88823 42884 64319	2/e	
* 0 .73684 21052 63157 89474	14/19	
* 1 .73737 02334 84769 46302	root of $x^3 + x^2 + x - 10 = 0$	
0 .73848 81116 21648 31294	$1/\Gamma(2/3)$	
0 .73859 04181 80534 36842	$2 - 1/F(1,0)$	36
2 .73861 27875 25830 56728	$\sqrt{30}/2$	
0 .73908 51332 15160 64166	root of $\cos x = x$	
0 .73913 04347 82608 69565	17/23	
1 .73920 38612 16693 68261	root of $x^3 + x - 7 = 0$	
2 .74008 51474 30702 09929	$\sqrt{20} - \sqrt{3}$	

(continued)

Table I (continued)

		Ref.
* 0 .74084 09550 95490 62101	root of $2x \sin x = 1$	
* 3 .74134 96523 56515 88095	root of $e^x = 11x + 1$	
3 .74165 73867 73941 38558	$\sqrt{14}$	
0 .74193 54838 70967 74194	23/31	
0 .74314 48254 77394 23501	$\cos 42^\circ = (1/16)((\sqrt{5} + 1)\sqrt{10 - 2\sqrt{5}} - \sqrt{90 - 30\sqrt{5}} + \sqrt{15} + 3\sqrt{3})$	
4. .74341 64902 52568 99800	$\sqrt{90}/2$	
1 .74355 95774 16269 42089	$\sqrt{76}/5$	
* 5 .74456 26465 38028 65985	$\sqrt{33}$	
* 0 .74531 92669 53231 15861	value of $F(1,x)$ at minimum. See 0.21716 ...	36
0 .74535 59924 99929 89880	$\sqrt{5}/3$	
1 .74552 80027 40699 38307	root of $xe^x = 10$	
* 7 .74596 66924 14833 77036	$\sqrt{60}$	
3437 .74677 07849 39252 60789	10800/ π	
0 .74682 41328 12427 02540	$\int_0^1 e^{-x^2} dx$	
2 .74767 45774 64761 43074	$0.5(1 + \sqrt{5}) [1,1,2,3,5,8, \dots]$	15,31
1 .74806 40977 95284 28320	$\sqrt{10} - \sqrt{2}$	
0 .74833 14773 54788 27712	$\sqrt{14}/5$	
2 .74873 70837 45107 03321	$\sqrt{68}/3$	
0 .74930 60012 88449 02361	$e^{-\gamma/2}$	10
0 .75069 87170	$(1 - 1/2) + 1/3 - 1/5 + 1/7 - 1/11 + 1/13 \dots$ twin primes	
0 .75105 23780 02794 33624	$dF(1,x)/dx$ at $x = 5$	36
0 .75112 55444 64942 48286	$\pi^{-1/4}$	
0 .75173 41827 13808 22855	ber(2) Bessel Function	
5 .75222 03923 06202 84612	$100 - 30\pi$	
* 0 .75306 42905 00950 67265	$1.5^3 e^{-1.5}$	
0 .75334 76680 76684 25912	$\sqrt{19} - \sqrt{13}$	
1 .75499 28774 78424 41208	$\sqrt{77}/5$	
* 0 .75623 99931 57849 48869	$\sinh(2\pi/9)$	
0 .75647 07973 66030 02943	$(\ln 2)/(\ln 2.5)$	
0 .75680 24953 07928 25137	$-\sin 4$	
0 .75735 93128 80714 85359	$5 - \sqrt{18}$	
1 .75812 26324 09172 21545	$\log_{10}(180/\pi)$	
* 0 .75862 06896 55172 41379	22/29	
2 .75892 41763 81120 66947	$21^{1/3}$	
0 .75920 03385 45335 27837	$\pi^2/13$	
* 0 .76017 34505 33140 40281	$\sqrt{\pi/2e}$	
0 .76018 82579 99435 27406	$1 - \gamma + Ci(1)$	9,10
* 0 .76086 58	$C/2$	22
0 .76159 41559 55764 88812	$(e^2 - 1)/(e^2 + 1) = \tanh 1$	
0 .76190 47619 04761 90476	16/21	

(continued)

Table I (continued)

			Ref.
*			
3	.76219 56910 83631 45956	cosh 2	
1	.76249 63764 55360 47018	root of $x^3 + 2x - 9 = 0$	
0	.76315 03155 14009 72328	root of $F(1, x/2) = x$ (other is -1.92957 ...)	36
1	.76322 28343 51896 71023	root of $x \ln x = 1$	
0	.76376 26158 25973 33443	$\sqrt{21}/6$	
1	.76383 42073 76393 72700	$\sqrt{28}/3$	
0	.76393 20225 00210 30359	$3 - \sqrt{5}$	
0	.76470 58823 52941 17647	13/17	
0	.76484 21872 84488 42626	cos 0.7	
0	.76519 76865 57966 55145	$J_0(1)$	
*			
1	.76635 21732 65569 37095	$\sqrt{78}/5$	
0	.76738 12302 55818 48517	$[0, 1, 1, 2, 3, 5, 8, \dots]^{1/2}$	15, 31
*			
1	.76776 69529 66368 81100	$\sqrt{50}/4$	
1	.76812 81839 13930 94274	$\ln(\pi + e)$	
*			
0	.76859 75605 93155 19851	$\xi_3 = [0, 3^{F_0}, 3^{F_1}, 3^{F_2}, \dots]$ Roth number	15, 31
1	.76887 25888 14327 38216	$\pi^{-3/2} e^{-\gamma/2} \Gamma^2(1/4)$	10
2	.76887 46209 72691 61753	$\sqrt{69}/3$	
0	.76923 07692 30769 23077	10/13	
1	.76929 23542 38631 41524	root of $x^3 - 2x - 2 = 0$	
4	.76969 60070 84728 24576	$\sqrt{91}/2$	
*			
0	.77074 70412 68399 14207	$1/(2(e^{1/2} - 1))$	
0	.77091 69970 59248 10083	root of $x^3 + 2x - 2 = 0$	
*			
8	.77215 29429 54223 62662	$\pi \sum_{n=0}^{\infty} 1/a_n$	33
0	.77230 59681 31876 14161	$-\tan 10^{12}$	
1	.77245 38509 05516 02730	$\sqrt{\pi} = \Gamma(1/2)$	
*			
1	.77387 75832 85132 34380	$1 + 1/1 \cdot 2 + 1/2 \cdot 3 + 1/3 \cdot 5 + 1/5 \cdot 8 + \dots$	31
5	.77395 42350 13851 69410	$10^{10} - 3183098860 \pi$	
0	.77419 35483 87096 77419	24/31	
0	.77459 66692 41483 37704	$\sqrt{15}/5$	
0	.77480 41132 15433 85409	root of $x^4 + x^3 - x^2 + x - 1 = 0$	
*			
3	.77491 72176 35374 84862	$\sqrt{57}/2$	
*			
0	.77539 74966 10753 06374	arcsin 0.7	
0	.77712 41507 17799 19552	$\sqrt{13} - \sqrt{8}$	
1	.77763 88834 63117 77002	$\sqrt{79}/5$	
1	.77827 94100 38922 80123	$10^{1/4}$	
0	.77853 90719 81530 55935	$\sqrt{18} - \sqrt{12}$	
*			
0	.77976 71360 88000 28819	minimum of $\sqrt{x^2 + e^{-2x}}$ $x = 0.42630 \dots$	
*			
1	.78107 24179 90197 98524	e^{γ}	10
*			
0	.78173 59599 70571 59243	$\sqrt{22}/6$	
0	.78222 75588 64675 12814	$\Gamma^4(1/4)/4e^{\gamma}\pi^3$	10

(continued)

Table I (continued)

		Ref.
6 .78232 99831 25268 13906	$\sqrt{46}$	
0 .78260 86956 52173 91304	18/23	
0 .78332 69096 27483 38846	sin 0.9	
0 .78343 05107 12134 40706	$1 - 1/2^2 + 1/3^3 - 1/4^4 + \dots = \int_0^1 x^x dx$	
2 .78388 21814 15010 96106	$\sqrt{31}/2$	
* 2 .78504 09255 45416 54998	$2(15)1/(2\pi)^{15}$	
1 .78535 71071 35712 49950	$\sqrt{51}/4$	
0 .78539 81633 97448 30962	$\pi/4$	
0 .78555 27428 46740 54486	root of $\cos x = 0.9x$	
0 .78571 42857 14285 71429	11/14	
* 0 .78693 86805 74733 15279	$2(1 - e^{-0.5})$	
9 .78760 60360 44382 26418	$\sum_{n=1}^{10000} 1/n$	
3 .78762 71814 42145 88694	F(-1,2)	36
1 .78885 43819 99831 75713	$\sqrt{80}/5$	
2 .78886 67551 13585 15993	$\sqrt{70}/3$	
0 .78947 36842 10526 31579	15/19	
0 .79030 88603 83940 80399	root of $6x^3 - 5x^2 + 4x - 3 = 0$	
0 .79056 94150 42094 83300	$\sqrt{10}/4$	
1 .79099 24754 67610 91030	$-\cot 10^{10}$	
4 .79128 78474 77920 00329	$0.5(5 + \sqrt{21})$	
0 .79144 63018 52890 27005	$\cos 10^{12}$	
11 .79153 44390 14281 61374	Fourth zero of $J_0(x)$	
1 .79175 94692 28055 00081	ln 6	
2 .79226 30048 58563 30603	$\sum_{n=0}^{\infty} 1/a_n$	33
0 .79276 39161 87788 34749	F(1,0)	36
6 .79282 34299 90524 60299	$\sum_{n=1}^{500} 1/n$	
* 0 .79310 34482 75862 06897	23/29	
1 .79315 09443 36107 04821	$\sqrt{18} - \sqrt{6}$	
* 0 .79370 05259 84099 73738	$2^{-1/3}$	
1 .79505 49357 11501 34375	$\sqrt{29}/3$	
0 .79539 88301 84143 55549	arccos 0.7	
4 .79583 15233 12719 54160	$\sqrt{23}$	
1 .79632 19032 59441 53505	root of $x^3 - x - 4 = 0$	
0 .79659 95992 97053 13428	$\gamma + E_1(1)$	9,10
3 .79719 28760 32294 41479	$\sqrt{5} [1,1,2,3,5, \dots]$	15,31
0 .79788 45608 02865 35588	$\sqrt{2/\pi}$	
2 .79838 60457 83887 13672	root of $x \tan x + 1 = 0$	
0 .79930 52538 85453 25693	$\sqrt{23}/6$	
3 .80178 40169 23930 27472	$(\ln 2)/(\ln 6 - \ln 5)$	
2 .80203 93306 55387 12067	$22^{1/3}$	

(continued)

Table I (continued)

		Ref.
1 .80277 56377 31994 64656	$\sqrt{13}/2$	
0 .80316 23441 42897 23918	$\sum_{n=1}^{\infty} (-1)^{n+1}/(n a_n)$	33
* 2 .80588 37014 75778 71510	$\sqrt{1.5} + \sqrt{2.5}$	
0 .80599 59770 08234 82036	$(\pi/6)^{1/3}$	
0 .80624 70963 55156 47336	$648000/\pi - 206264$	
5 .80628 14910 46215 84042	root of $x \tan x + 3 = 0$	
0 .80632 58048 05279 57525	$[0, 1, 4, 6, 8, 9, 10, \dots]$ nonprimes	15
0 .80645 16129 03225 80645	25/31	
0 .80648 08352 62260 70071	$\sqrt{17} - \sqrt{11}$	
* 0 .80769 23076 92307 69231	21/26	
3 .80788 65529 31954 14283	$\sqrt{58}/2$	
* 2 .80871 65910 58786 21021	$\sqrt{71}/3$	
0 .80901 69943 74947 42410	$\cos 36^\circ = (1 + \sqrt{5})/4$	
0 .80952 38095 23809 52381	17/21	
4 .81047 73809 65351 65547	$e^{\pi/2}$	
0 .81053 57137 66136 77402	root of $x^3 + x^2 + x - 2 = 0$	
1 .81107 70276 27483 32531	$\sqrt{82}/5$	
* 1 .81337 64923 91603 49961	$\pi\gamma$	10
* 1 .81379 93642 34217 85059	$\pi/\sqrt{3}$	
5 .81586 41982 83724 46457	$3.5 \cdot 7 \sqrt{\pi}/32$	
0 .81604 89390 98262 98108	$1/\Gamma(3/4)$	
0 .81649 65809 27726 03273	$\sqrt{6}/3$	
1 .81712 05928 32139 65889	$6^{1/3}$	
9 .81732 69112 33034 46456	$\text{Shi}(4)$	9
0 .81773 16738 86823 50609	root of $x^3 + 3x - 3 = 0$	
0 .81806 78991 01251 66919	$(\ln 2)/(\ln 7 - \ln 3)$	
0 .81835 03040 73163 99655	$\sqrt{12} - \sqrt{7}$	
3 .81837 52175 45151 65762	$0.5(1 + \sqrt{5})(1 + 1/2 + 1/3 + 1/5 + \dots)$	31
* 1 .82002 74723 20129 56777	$\sqrt{53}/4$	
0 .82142 85714 28571 42857	23/28	
4 .82164 01644 04113 86884	root of $x^3 - 6x^2 + 9x - 16 = 0$	
4 .82182 53804 96477 49788	$\sqrt{93}/2$	
0 .82185 44151 26694 64761	$\sqrt{5} - \sqrt{2}$	
1 .82208 67158 28859 77639	$\sqrt{83}/5$	
0 .82231 67319 35829 98070	$\sinh 0.75$	
0 .82246 70334 24113 21824	$\pi^2/12 = \zeta(2)/2 = \eta(2)$	8
2 .82253 37450	$\sum 1/p$ p = primes 2 to 420001	
* 0 .82352 94117 64705 88235	14/17	
0 .82451 51574 06924 56814	$1/2 + 1/5 + 1/13 + 1/34 \dots$	31
0 .82462 11251 23532 10996	$\sqrt{17}/5$	

(continued)

Table I (continued)

			Ref.
*	0 .82533 56149 09678 29724	cos 0.6	
	1 .82545 50229 24830 04004	root of $x^x = 3$	
	1 .82574 18583 50553 71152	$\sqrt{30}/3$	
	0 .82608 69565 21739 13043	19/23	
	7 .82623 79212 49263 93743	$3.5 \sqrt{5}$	
	1 .82638 46439 34988 80232	$\sqrt{20} - \sqrt{7}$	
	0 .82687 95405 32002 56026	sin 1000	
	3 .82698 35605 81143 33971	root of $e^x = 12x$ (other is 0.09129 ...)	
	0 .82758 62068 96551 72414	24/29	
	0 .82772 87426 35745 22359	2.25/e	
	2 .82842 71247 46190 09760	$\sqrt{8}$	
	0 .82915 61975 88849 96228	$\sqrt{11}/4$	
	5 .83095 18948 45300 47087	$\sqrt{34}$	
	0 .83184 85666 76786 79637	$2.25 e^{1.5}/(e^{1.5} - 1)^2$	
	0 .83242 90656 61945 27803	D_{∞}	12
*	1 .83303 02779 82336 00264	$\sqrt{84}/5$	
	2 .83314 78920 49342 14261	root of $e^x = 6x$ (other is 0.20448 ...)	
	1 .83375 09577 21400 64841	root of $x^3 + x - 8 = 0$	
	5 .83375 45586 25099 24004	root of $\int_0^x t^3 e^{-t} dt = 5$	
	3 .83497 04207 65194 04835	$F(2,5)$	36
	0 .83543 36734 51827 26616	$[1, 5, 13, 17, 29, \dots]^{-1}$	15, 26
*	0 .83706 07706 21972 61150	root of $\cos x = 0.8x$	
	1 .83711 73070 87383 57365	$\sqrt{54}/4$	
	0 .83713 04978 74758 54374	$\int_0^5 e^{x^2} dx - 7354153747$	
	0 .83772 23398 31620 66800	$4 - \sqrt{10}$	
	0 .83786 69409 80208 24089	Chi(1)	9
	1 .83787 70664 09345 48356	$\ln(2\pi)$	
	0 .83788 71813 63902 33439	$\cos 10^9$	
	0 .83798 12250 08390 02759	arccot 0.9	
*	0 .83844 76740 76117 24632	root of $x^3 + x^2 + 8x - 8 = 0$	
*	0 .83870 96774 19354 83871	26/31	
	0 .83907 15290 76452 45226	$-\cos 10$	
	1 .83928 67552 14161 13255	root of $x^3 - x^2 - x - 1 = 0$	41
*	138 .84046 59416 32647 20638	ber(10) Bessel Function	
	3 .84057 28739 34304 08788	$\sqrt{59}/2$	
	0 .84147 09848 07896 50665	sin 1	
*	0 .84210 52631 57894 73684	16/19	
*	0 .84273 94416 46816 97969	$\pi(1 - 0.25\pi)/8$	
*	2 .84386 69798 51565 47770	$23^{1/3}$	
	1 .84390 88914 58577 46200	$\sqrt{85}/5$	

(continued)

Table I (continued)

		Ref.
1 .84418 92635 47018 87078	$f(3)$	44
2 .84557 05928 42116 55915	$(\sum_{n=0}^{\infty} (-1)^n / a_n)^{-1}$	33
0 .84615 38461 53846 15385	11/13	
0 .84655 03844 86253 22560	$2 \sum_{n=0}^{\infty} (-1)^n (n+2) / ((n+2)!)^2$	
* 1 .84741 90378 32732 72274	root of $x^3 + 2x - 10 = 0$	
4 .84767 98574 16329 01407	$\sqrt{94}/2$	
2 .84800 12484 39177 05596	$\sqrt{73}/3$	
0 .84806 20789 81481 00805	$\arcsin 0.75$	
1 .84839 24814 93187 49178	$(8 \ln 2)/3$	
0 .84852 81374 23857 02928	$\sqrt{18}/5$	
* 2 .84965 39082 26361 49747	$e^{\pi/3}$	
9 .84966 27591 23000 81740	$\Gamma^2(1/4)/e^{1/2}$	10
0 .84981 18803 02595 47561	$2 - 0.5(1 + \sqrt{5})\phi_2$	32
0 .84983 65855 98797 47167	$\sqrt{26}/6$	
* 0 .85196 63271 73272 11381	$\operatorname{arccot}(7/8)$	
0 .85260 55020 13725 49135	root of $xe^x = 2$	
7 .85320 46240 95837 55648	2^{nd} root of $\cos x \cosh x = 1$	
1 .85404 96217 73915 73718	$\sqrt{55}/4$	
1 .85407 46773 01371 91843	$\Gamma^2(1/4)/4 \sqrt{\pi} = \tilde{\omega}/\sqrt{2}$	1
* 1 .85410 59679 21026 43275	root of $x^x = \pi$	
1 .85472 36990 99140 75050	$\sqrt{86}/5$	
0 .85475 56456 75727 38849	$(\ln 2)/2(\ln 3 - \ln 2)$	
7 .85475 74382 37612 56486	3^{rd} root of $\cos x \cosh x = -1$	
6 .85565 46004 01044 12494	$\sqrt{47}$	
2 .85566 90083 72142 50601	$\sqrt{3e}$	
1 .85592 14542 76673 97404	$\sqrt{31}/3$	
0 .85714 28571 42857 14286	6/7	
2 .85739 07835 14365 67923	root of $x \ln x = 3$	
8 .85831 59660 45036 08855	-ber(6) Bessel Function	
0 .85964 85585 93615 27152	$-\ln(\pi - e)$	
5 .85987 44820 48838 47382	$\pi + e$	
* 0 .86033 35890 19379 76248	root of $x \tan x = 1$	
2 .86167 63707 98678 80956	root of $x^2 - 15x - 18 + 10 \sqrt{36 - x^2} = 0$	
0 .86206 89655 17241 37931	25/29	
0 .86231 88722 87683 93410	$\cos 100$	
* 1 .86361 67832 44896 54236	$G(1,3)$	37
3 .86370 33051 56273 14700	$\sqrt{2} + \sqrt{6} = 4 \cos 15^\circ$	
3 .86432 84505 40824 92147	$0.5(\sqrt{13} + \sqrt{17})$	
0 .86492 72805 42030 81492	root of $4 \cos x = 3x$	
0 .86525 59794 32265 08722	e/π	

(continued)

Table I (continued)

		Ref.	
1 .86547	58106 17763 00911	$\sqrt{87}/5$	
0 .86602	54037 84438 64676	$\sin 60^\circ = \sqrt{3}/2$	
0 .86658	46795 35590 09970	$\sqrt{20} - \sqrt{13}$	
0 .86713	50475 72221 75092	$\sqrt{11} - \sqrt{6}$	
2 .86744	17556 80875 59058	$\sqrt{74}/3$	
* 0 .86867	09614 86009 60990	$\sinh \pi/4$	
0 .86956	52173 91304 34783	20/23	
9 .86960	44010 89358 61883	π^2	
* 1 .87082	86933 86970 69279	$\sqrt{14}/2$	
0 .87096	77419 35483 87097	27/31	
0 .87177	97887 08134 71045	$\sqrt{19}/5$	
0 .87201	05272 21196 61415	$64/27e$	
2 .87228	13232 69014 32993	$\sqrt{33}/2$	
0 .87235	80249 54859 94177	$\pi^2/8\sqrt{2}$	
133 .87244	70205 08257 12856	$0.5 \sinh 2\pi$	
1 .87278	43350 98467 13939	$\psi(7) = 49/20 - \gamma$	10
3 .87298	33462 07416 88518	$\sqrt{15}$	
4 .87299	75842 81389 37523	$0.4e^{2.5}$	
0 .87311	96226 76856 00118	$\cos 10^{10}$	
133 .87338	07418 74111 12296	$0.5 \cosh 2\pi$	
4 .87339	71724 04481 95342	$\sqrt{95}/2$	
1 .87350	04678 95111 99959	$\sqrt{13} - \sqrt{3}$	
1 .87510	40687 11961 16645	1 st root of $\cos x \cosh x = -1$	
0 .87600	29853 00745 69899	$[0,1,1,2,3,5, \dots]^{1/4}$	15,31
1 .87616	63039 29371 82183	$\sqrt{88}/5$	
0 .87689	43743 82339 45018	$5 - \sqrt{17}$	
0 .87758	25618 90372 71612	$\cos 0.5$	
* 5 .87803	09481 21444 47606	$\sum_{n=1}^{200} 1/n$	
1 .87938	52415 71816 76811	root of $x^3 - 3x - 1 = 0$	
1 .87979	77110 64811 55918	$\sum_{p=2}^{139} 1/p$ p = primes	
* 0 .88020	29160 46949 61606	$0.25/(e^{0.25} - 1)$	
* 0 .88137	35870 19543 02523	$\operatorname{arcsinh} 1 = \ln(1 + \sqrt{2})$	
0 .88191	71036 88196 86350	$\sqrt{7}/3$	
0 .88208	13907 62421 67997	$\int_0^2 e^{-x^2} dx$	
4 .88232	83663 67131 11591	$F(-1,5)$	36
0 .88235	29411 76470 58824	15/17	
2 .88373	47475 58081 52391	$[1,1,2,3,5,8, \dots]^2$	15,31
0 .88443	62944 07163 69108	$\Gamma^2(1/4)/2e^{7/2}\pi^{3/2}$	10
* 2 .88449	91406 14816 76464	$24^{1/3}$	
0 .88461	53846 15384 61538	23/26	

(continued)

Table I (continued)

			Ref.
0	.88502 88466 77125 53195	H(1,-2)	38
287	.88527 78150 44360 99632	$\Gamma(6.5) = 10395 \sqrt{\pi}/64$	
0	.88560 31944 10888 70028	$\Gamma(x)$ at minimum ($x = 1.46163 \dots$)	
1	.88561 80831 64126 73174	$\sqrt{32}/3$	
*			
0	.88620 73482 59521 23389	$\int_0^3 e^{-x^2} dx$	
0	.88622 69117 89568 94577	$\int_0^4 e^{-x^2} dx$	
0	.88622 69254 51395 47538	$\int_0^5 e^{-x^2} dx$	
0	.88622 69254 52758 01365	$0.5 \sqrt{\pi} = \Gamma(1.5)$	
*			
2	.88675 13459 48128 82255	$\sqrt{75}/3$	
1	.88679 62264 11320 76226	$\sqrt{89}/5$	
0	.88693 87916 42566 17190	$1/2(1 + 1/1.2 + 1/2.3 + 1/3.5 + 1/5.8 \dots)$	31
1	.88703 76481 17870 85341	$\sqrt{17} - \sqrt{5}$	
1	.88745 86088 17687 42431	$\sqrt{57}/4$	
*			
1	.88859 74120 29828 14992	root of $e^x = 3.5x$ (other is 0.44654 ...)	
0	.88880 49192 71738 62484	$(\sum_{n=0}^{\infty} 1/a_n)/\pi$	33
3	.89115 68233 26853 81808		39
0	.89120 73600 61435 33995	sin 1.1	
0	.89122 59655 34573 52253	$-dF(1,x)/dx$ at $x = -2$	36
0	.89285 71428 57142 85714	$25/28$	
0	.89297 95115 69249 21122	$\Gamma(4/3)$	
1	.89328 91963 04497 78891	root of $x^3 - 2x - 3 = 0$	
0	.89433 70388 53159 42944	root of $\cos x = 0.7x$	
*			
0	.89473 68421 05263 15789	$17/19$	
0	.89479 73284 02918 96518	$\sqrt{19} - \sqrt{12}$	
1	.89511 78163 55936 75547	Ei(1)	9
0	.89547 15367 32346 52860	$1 - \sin 6^\circ$	
*			
0	.89566 47938 57864 97202	arccos (5/8)	
0	.89605 53845 71343 95617	arccot 0.8	
0	.89655 17241 37931 03448	$26/29$	
*			
4	.89703 22682 39870 15769	$[1,1,2,3,5, \dots]^3$	15,31
0	.89723 67637 35396 23808	$\pi^2/11$	
1	.89736 65961 01027 59920	$\sqrt{90}/5$	
0	.89752 74678 55750 67188	$\sqrt{29}/6$	
*			
0	.89814 31669 22466 60546	$625/256e$	
4	.89897 94855 66356 19639	$\sqrt{24}$	
0	.90031 63161 57106 06956	$\sqrt{8}/\pi$	
0	.90040 40442 97839 94512	$\tan 42^\circ$	
0	.90066 01736 97680 10310	[0,1,9,15,21, ...] terms are odd nonprimes	15
0	.90138 78188 65997 32328	$\sqrt{13}/4$	
0	.90154 26773 69695 71405	$n(3)$	8

(continued)

Table I (continued)

			Ref.	
1 .90241	12279	82304 80031	$\sqrt{11} - \sqrt{2}$	
0 .90274	52929	50933 61130	$\Gamma(5/3)$	
0 .90322	58064	51612 90323	28/31	
1 .90381	36944	40383 48471	root of $e^x = 3x + 1$	
1 .90394	32764	65977 07142	$\sqrt{58}/4$	
1 .90416	08591	34920 60368	root of $x^3 - x - 5 = 0$	
0 .90476	19047	61904 76190	19/21	
* 3 .90512	48379	53327 19706	$\sqrt{61}/2$	
0 .90514	82536	44866 43824	$\tanh 1.5$	
* 2 .90593	26290	27115 70149	$\sqrt{76}/3$	
0 .90640	24770	55477 07798	$\Gamma(5/4)$	
* 0 .90689	96821	17108 92530	$\pi/\sqrt{12}$	
0 .90717	86454	78292 84647	$(1+x)F(1,x)$ at minimum of $F(1,x)$ $x = 0.21716 \dots$	36
0 .90727	03861	81739 56116	$-\cos 10^7$	
* 1 .90787	84028	33891 29831	$\sqrt{91}/5$	
* 1 .90940	92007	57495 45404	$\sqrt{19} - \sqrt{6}$	
0 .91059	84992	12614 70706	$\sin(\ln \pi)$	
0 .91173	39147	86965 09789	$-\cos(e)$	
0 .91287	09291	75276 85576	$\sqrt{30}/6$	
1 .91293	11827	72389 10120	$7^{1/3}$	
0 .91304	34782	60869 56522	21/23	
0 .91323	02620	27751 28798	$\sqrt{14} - \sqrt{8}$	
* 0 .91370	05034	95713 29697	$\sqrt{7} - \sqrt{3}$	
* 0 .91447	21676	24423 30502	$2.5 - F(1,2)$	36
1 .91485	42155	12676 21995	$\sqrt{33}/3$	
0 .91485	64784	47236 32738	root of $3 \cos x = 2x$	
0 .91540	17710	55723 35767	$6^5/5^5 e$	
2 .91547	59474	22650 23544	$\sqrt{34}/2$	
0 .91596	55941	77219 01505	$\beta(2)$ Catalan's Constant	8
5 .91607	97830	99616 04257	$\sqrt{35}$	
0 .91651	51389	91168 00132	$\sqrt{21}/5$	
0 .91715	23356	67274 34637	$\tanh(\pi/2)$	
2 .91830	04757	83052 59130	root of $e^x = 6x + 1$	
0 .91893	85332	04672 74178	$\ln \sqrt{2\pi}$	
0 .91906	25268	48883 23385	$\Gamma(7/4)$	
1 .92017	51213	47179 64190	root of $x^3 + x - 9 = 0$	
4 .92026	25653	99516 87205	root of $x^3 + 5x^2 + 2x - 250 = 0$	
1 .92028	64369	67152 04394	$\sqrt{59}/4$	
0 .92044	20652	59926 03577	$\sqrt{10 + \sqrt{125}}/5$	
0 .92059	03462	52050 82372	$(18\sqrt{3} + 27)^{1/4}/3$	

(continued)

Table I (continued)

			Ref.
*	0 .92067 35942 07792 31895	$e/(e-1)^2$	
	0 .92106 09940 02885 08280	$\cos 0.4$	
*	0 .92213 70088 95789 11688	$\sqrt{2\pi}/e$	
*	0 .92278 43350 98467 13939	$\psi(3) = 1.5 - \gamma$	10
	0 .92307 69230 76923 07692	$12/13$	
2	.92401 77382 12866 06551	$25^{1/3}$	
0	.92413 88730 04591 76701	root of $2x \int_0^x e^{t^2} dt = e^{x^2}$	35
0	.92429 98972 22938 85596	$\sum_{n=2}^{\infty} (-1)^n / \ln n$	
4	.92442 89008 98052 36087	$\sqrt{97}/2$	
2	.92498 81291 30707 35347	$\sqrt{77}/3$	
5	.92562 11400 93851 43291	$10^6 - 318308 \pi$	
0	.92601 58967 63885 29729	$\sqrt{18} - \sqrt{11}$	
0	.92620 96826 68589 63559	$\sqrt{10} - \sqrt{5}$	
*	0 .92729 52180 01612 23243	$\arcsin 0.8 = \arccos 0.6 = \arctan (4/3)$	
*	1 .92756 19754 82925 30426	root of $x^4 - x^3 - x^2 - x - 1 = 0$	
4	.92767 14822 48480 89079	$4(51)/\pi^4$	
0	.92796 07271 38336 98702	$\sqrt{31}/6$	
6	.92820 32302 75509 17411	$\sqrt{48}$	
0	.92857 14285 71428 57143	$13/14$	
0	.92869 36604 96591 95286	$\sin 10^{11}$	
1	.92873 01521 98590 99915	$\sqrt{93}/5$	
1	.92957 25246 23013 88150	root of $F(1,-x) + 2x = 0$ (other is -0.38157 ...)	36
0	.93103 44827 58620 68966	$27/29$	
0	.93163 90271 09726 00803	$\sin 10^8$	
19	.93163 95488 50366 64530	$2\pi e^{2\gamma}$	10
*	1 .93185 16525 78136 57350	$0.5(\sqrt{2} + \sqrt{6})$	
0	.93203 90859 67226 34967	$\sin 1.2$	
4071	.93209 52252 61098 52457	$e^{\pi\sqrt{7}}$	
*	0 .93219 37597 62973 90523	$-Y_2(1.5)$ Bessel Function	
0	.93275 21295 67188 57189	$0.5 - \ln(e^{0.5} - 1)$	
9	.93383 25706 25416 55801	$Ei(3)$	9
4	.93480 22005 44679 30942	$\pi^2/2$	
0	.93541 43466 93485 34640	$\sqrt{14}/4$	
0	.93548 38709 67741 93548	$29/31$	
73	.93572 98576 16179 76190	$ber(9)$ Bessel Function	
0	.93586 92124 74883 90774	$\Gamma(\pi-2)$	
0	.93598 09168 46751 27541	$\int_0^{\pi\sqrt{2}} x e^{-x} dx$	
*	1 .93647 92296 48317 93229	$Chi(1) + \ln 3$	9
1	.93649 16731 03708 44259	$\sqrt{15}/2$	
0	.93675 21275 33144 78694	$\cos 10^6$	

(continued)

Table I (continued)

			Ref.
3	.93700 39370 05905 50984	$\sqrt{62}/2$	
0	.93754 82543 15843 75370	$\sum_{n=2}^{\infty} (\ln n)/n^2$	
0	.93756 48970 81389 41299	root of $4x^3 + 4x^2 - 3x - 4 = 0$	
1	.93758 67852 66042 76690	bei(3) Bessel Function	
0	.93808 31519 64685 91091	$\sqrt{22}/5$	
0	.93846 98072 40812 90423	$J_0(0.5)$ Bessel Function	
1	.93907 19429 66531 60563	$\sqrt{94}/5$	
0	.93969 26207 85908 38405	$\cos 20^\circ = \text{root of } 8x^3 - 6x - 1 = 0$	
0	.94117 64705 88235 29412	16/17	
2	.94129 29542 29584 11215	$\sqrt{3} [1, 1, 2, 3, 5, \dots]$	15, 31
1	.94269 51345 04014 46002	$10^8 - 31830988 \pi$	
0	.94280 90415 82063 36587	$\sqrt{8}/3$	
1	.94365 06316 15100 15696	$\sqrt{34}/3$	
2	.94392 02887 75948 95159	$\sqrt{78}/3$	
8	.94427 19099 99158 78564	$\sqrt{80}$	
2	.94468 53811 67578 50344	$\sqrt{19} - \sqrt{2}$	
1	.94591 01490 55313 30511	$\ln 7$	
0	.94608 30703 67183 01494	Si(1)	9
0	.94703 28294 97245 91758	$\eta(4) = 7\pi^4/720$	8
0	.94736 84210 52631 57895	18/19	
0	.94805 94489 68519 93568	$\pi(1 + \sqrt{2})/8$	
3	.94885 62111 83631 62128	$\sqrt{2} \sum_{n=0}^{\infty} 1/a_n$	33
1	.94935 88689 61792 78137	$\sqrt{95}/5$	
4	.94974 74683 05832 67081	$\sqrt{98}/2$	
0	.95105 65162 95153 57212	$\cos 18^\circ = 0.25 \sqrt{10 + \sqrt{20}}$	
0	.95215 53682 59014 85124	$-\cos 10^4$	42
0	.95238 09523 80952 38095	20/21	
1	.95256 24189 76663 59853	$\sqrt{61}/4$	
4	.95423 43560 01890 16338	Ei(2)	9
0	.95441 45006 67807 18795	$9e^{0.75}/16(e^{0.75} - 1)^2$	
27	.95508 83982 30715 55134	$-\cot 10^5$	
0	.95526 77537 84334 31655	$e \sum_{n=0}^{\infty} (-1)^n/a_n$	33
0	.95533 64891 25606 01964	$\cos 0.3$	
2	.95545 46859 60148 13656	root of $e^x = 6.5x$ (other is 0.18513 ...)	
0	.95652 17391 30434 78261	22/23	
0	.95742 71077 56338 10998	$\sqrt{33}/6$	
2	.95803 98915 49808 02128	$\sqrt{35}/2$	
0	.95825 18984 67989 81272	root of $\cos x = 0.6x$	
0	.95858 63567 28702 91217	root of $xe^x = 2.5$	
0	.95916 63046 62543 90832	$\sqrt{23}/5$	

(continued)

Table I (continued)

		Ref.	
5	.95939 19075 79326 31051	root of $x \tan x + 2 = 0$	
0	.95950 21757 44491 57894	$4\sqrt{\pi}/e^2$	
1	.95959 17942 26542 47856	$\sqrt{96}/5$	
0	.95979 99643 99398 70262	$\sqrt{13} - \sqrt{7}$	
0	.96007 03624 05688 00269	arccot 0.7	
1	.96010 76074 36186 67028	$F(-1,9)/4$	36
*	0 .96082 79654 49281 21782	$\sqrt{17} - \sqrt{10}$	
0	.96090 60278 36402 84933	$2(\ln 2)^2$	
0	.96105 77570 39779 20622	$e/\sqrt{8}$	
0	.96153 84615 38461 53846	25/26	
2	.96249 60684 07370 50867	$26^{1/3}$	
2	.96273 14724 38529 61670	$\sqrt{79}/3$	
1	.96351 00260 21423 47944	$-\psi(1/2) = \gamma + 2 \ln 2$	10
0	.96355 81854 17192 96470	sin 1.3	
0	.96402 75800 75816 88395	tanh 2	
0	.96428 57142 85714 28571	27/28	
4	.96511 42317 44276 30370	root of $(5-x)e^x = 5$	
0	.96551 72413 79310 34483	28/29	
0	.96592 58262 89068 28675	$\sin 75^\circ = (\sqrt{2} + \sqrt{6})/4$	
0	.96774 19354 83870 96774	30/31	
0	.96824 58365 51854 22129	$\sqrt{15}/4$	
1	.96850 19685 02952 75492	$\sqrt{62}/4$	
3	.96862 69665 96885 88575	$\sqrt{63}/2$	
0	.96891 24217 10644 78414	cos 0.25	
0	.96894 61462 59369 38048	$\beta(3) = \pi^3/32$	8
20	.96965 53016 44382 28917	$4 \cdot 71/\pi^6$	
1	.96977 15603 59220 94435	$\sqrt{97}/5$	
0	.96984 63103 92954 19203	$\cos^2 10^\circ$	
0	.97182 53158 07550 07848	$\sqrt{34}/6$	
1	.97202 65943 66538 68086	$\sqrt{35}/3$	
0	.97211 97704 46909 30594	$\eta(5)$	8
0	.97229 16273 06661 20610	bei(2) Bessel Function	
0	.97270 15985 57643 99927	$9\sqrt{6\pi}/2e^3$	
0	.97295 50745 27656 65255	arctanh 0.75 = $0.5 \ln 7$	
0	.97336 02483 50782 72	$-\zeta(1/3)$	8
4	.97344 04758 59806 79771	Shi(3)	9
0	.97353 61584 45750 16888	$1000 - 318 \pi$	
1	.97392 08802 17871 72377	$\pi^2/5$	
20	.97395 56107 30256 06970	ber(8) Bessel Function	
4	.97493 71855 33099 77367	$\sqrt{99}/2$	

(continued)

Table I (continued)

			Ref.
1	.97550 57608 36856 45001	$\sum_{p=2}^{239} 1/p$ p = primes	
0	.97814 76007 33805 63793	$\cos 12^\circ = (1/16)(2\sqrt{5} - 2 + \sqrt{15 - 6\sqrt{5}} + \sqrt{75 + 30\sqrt{5}})$	
0	.97846 93929 30306 10374	$\int_{0.25}^1 (\ln x)/(x-1) dx$	
0	.97942 39638 70553 89302	$64\sqrt{2\pi}/3e^4$	
0	.97942 45222 58190 94121	$0.25e^{0.5}/(e^{0.5} - 1)^2$	
0	.97979 58971 13271 23928	$\sqrt{24}/5$	
1	.97989 89873 22333 06832	$\sqrt{98}/5$	
0	.98025 81434 68547 19171	$\sqrt{2} \ln 2$	
2	.98118 80507 09995 21981	$0.5(\sqrt{7} + \sqrt{11})$	
2	.98142 39699 99719 59521	$\sqrt{80}/3$	
0	.98219 33800 07238 77985	$\tanh 0.75 \pi$	
0	.98279 37232 47329 06799	$\arctan 1.5$	
0	.98349 30663 13250 66654	$625\sqrt{10\pi}/24e^5$	
30	.98387 38316 74703 40553	$\Gamma^2(1/6)$	
1	.98431 34832 98442 94288	$\sqrt{63}/4$	
0	.98438 17812 13086 88397	ber(1) Bessel Function	
2	.98451 94055 20392 21056	F(1,4)	36
0	.98480 77530 12208 05937	$\cos 10^\circ$	
0	.98542 06469 27767 06919	$\ln \Gamma(1/3)$	
0	.98544 97299 88460 18066	$\sin 1.4$	
0	.98555 10912 97435 10410	$\eta(6) = 31 \pi^6/30240$	8
0	.98601 32971 83269 34043	$\sqrt{35}/6$	
0	.98661 42981 51430 28888	$\tanh 2.5$	
0	.98691 71803 89355 66565	$\cos x_1$ $x_1 = 6.12125\dots = \text{root of } x \tan x + 1 = 0$	
0	.98696 04401 08935 86188	$\pi^2/10$	
0	.98734 20782 72393 52447	$\sqrt{2} [0,1,2,3,5,8, \dots]$	15, 31
0	.98768 83405 95137 72619	$\cos 9^\circ = (\sqrt{2} + \sqrt{10} + 2\sqrt{5 - \sqrt{5}})/8$	
2	.98779 27135 58709 88173	$e^{1.5}/1.5$	
0	.98784 90568 33810 78967	$\ln K$	16
0	.98894 45517 41105 33611	$\beta(4)$	8
1	.98997 48742 13239 90947	$\sqrt{99}/5$	
2197	.99086 95437 08083 16537	$e^{\pi\sqrt{6}}$	
3	.99214 90369 46613 26599	$(\sqrt{14} + \sqrt{18})/2$	
0	.99259 38199 22830 28267	$\eta(7)$	8
0	.99452 18953 68273 33692	$\cos 6^\circ = (\sqrt{3} + \sqrt{15} + \sqrt{10 - \sqrt{20}})/8$	
0	.99480 79024 29290 83794	$e^{0.25}/16(e^{0.25} - 1)^2$	
0	.99500 41652 78025 76610	$\cos 0.1$	
0	.99505 47536 86730 45133	$\tanh 3$	
0	.99615 78280 77088 06401	$\beta(5) = 5\pi^5/1536$	8
0	.99623 30018 52647 89923	$\eta(8) = 127\pi^8/1209600$	8

(continued)

Table I (continued)

		Ref.
0 .99627 20762 20749 94426	tanh π	
0 .99749 49866 04054 43094	sin 1.5	
0 .99825 74244 67165 52919	$e^{\pi\sqrt{22}} - 2508951$	6
0 .99862 95347 54573 87378	cos 3°	40
0 .99868 52222 18438 13544	$\beta(6)$	8
0 .99936 08074 38212 45189	$-\cos 10^5$	
0 .99955 45078 90539 90950	$\beta(7) = 61\pi^7/184320$	8
0 .99957 36030 41505 16434	sin 1.6	
0 .99964 86610 85632 40558	$9\pi\sqrt{2}/40$	
0 .99977 74660 34906 66194	$e^{\pi\sqrt{43}} - 8847 36743$	6
0 .99984 99902 46829 65634	$\beta(8)$	8
0 .99994 96841 87220 08982	$\beta(9) = 277\pi^9/8257536$	8
0 .99997 80465 51856 76650	$e^{\pi\sqrt{37}} - 1991 48647$	6
0 .99999 86624 54224 50683	$e^{\pi\sqrt{67}} - 14 71979 52743$	6
0 .99999 95893 93795 37069	$2178309\sqrt{5} - 48 70846$	
0 .99999 98222 13241 46958	$e^{\pi\sqrt{58}} - 2 45912 57751$	6
0 .99999 99999 88247 78473	cos 1"	
0 .99999 99999 99250 07260	$e^{\pi\sqrt{163}} - 262 53741 26407 68743$	6

Table II

				Ref.	
0	.00000	00356	64450 69761	$1/11^7 - 1/13^7 + 1/23^7 - 1/37^7 + 1/47^7 + \dots$	29
0	.00114	82955	91275 32580	$E_1(5)$	9
13	.00195	40840	57023 56412	$e^{\pi\sqrt{6}/3}$	
0	.00200	44675	74962 45066	$\frac{1}{2^5} + 1/3^9 + 1/5^9 + 1/7^9 + 1/11^9 + 1/13^9 + \dots$ all primes	7
0	.00828	38328	56133 59254	$1/2^7 + 1/3^7 + 1/5^7 + 1/7^7 + 1/11^7 + \dots$ all primes	7
2	.01432	27334	58315 73658	$\sum_{n=1}^{\infty} F_n/n!$ $F_n =$ Fibonacci number	31
1	.01594	75296	63479 91446	$(1 - 1/3^6)\zeta(6)$	8
2	.01909	87135	33618 13697	$\pi(\pi + 2)/8$	
306	.01968	47852	81453 26274	π^5	
0	.03575	50174	83924 25713	$1/2^5 + 1/3^5 + 1/5^5 + 1/7^5 + 1/11^5 + \dots$	7
0	.04545	64330	04455 37263	$-Ci(10)$	9
1	.04814	70739	68204 94649	$\sqrt{\ln 3}$	
0	.05534	75313	33133 60709	$Ci(9)$	9
3	.06552	18370	32502 96611	$(9 + \sqrt{241})/8$ Root of $4x^2 - 9x - 10 = 0$	
0	.06805	72438	93247 12620	$-Ci(6)$	9
1	.06969	38456	69906 85892	$(\sqrt{54} - 2)/5$ Root of $5x^2 + 4x - 10 = 0$	
3	.07002	74723	20129 56777	$(5 + \sqrt{53})/4$ Root of $4x^2 - 10x - 7 = 0$	
4	.07036	75169	75992 86208	$(5 + \sqrt{52})/3$ Root of $3x^2 - 10x - 9 = 0$	
1	.07477	27084	86752 00198	$(\sqrt{189} - 3)/10$ Root of $5x^2 + 3x - 9 = 0$	
1	.07518	38135	91930 41813	$(\sqrt{185} - 5)/8$ Root of $4x^2 + 5x - 10 = 0$	
0	.07669	52784	82184 51838	$Ci(7)$	9
2	.08009	08175	79420 12140	$\psi(17/2)$	1
1	.08062	48474	86569 73730	$(\sqrt{41} - 1)/5$ Root of $5x^2 + 2x - 8 = 0$	
1	.08113	88300	84189 66600	$(\sqrt{10} - 1)/2$ Root of $4x^2 + 4x - 9 = 0$	
1	.08743	42087	03791 72347	$(\sqrt{141} - 1)/10$ Root of $5x^2 + x - 7 = 0$	
1	.08808	74888	39953 13864	$(\sqrt{137} - 3)/8$ Root of $4x^2 + 3x - 8 = 0$	
1	.08876	04324	45132 64823	$(\sqrt{133} - 5)/6$ Root of $3x^2 + 5x - 9 = 0$	
1	.08945	41729	00136 80545	$(\sqrt{129} - 7)/4$ Root of $2x^2 + 7x - 10 = 0$	
20	.09206	35301	05951 06465	$Chi(5)$	9
0	.09629	12017	83626 00781	$(\sqrt{29} - 5)/4$ Root of $4x^2 + 10x - 1 = 0$	
0	.09716	75407	09727 06033	$(\sqrt{28} - 5)/3$ Root of $3x^2 + 10x - 1 = 0$	
0	.09807	62113	53315 94029	$(\sqrt{27} - 5)/2$ Root of $2x^2 + 10x - 1 = 0$	
0	.10102	05144	33643 80361	$5 - \sqrt{24}$ Root of $x^2 - 10x + 1 = 0$	
0	.10208	42383	43640 22920	$(5 - \sqrt{23})/2$ Root of $2x^2 - 10x + 1 = 0$	
1	.10315	66406	45243 18723	$\psi(7/2)$	1
0	.10319	47467	25523 48181	$(5 - \sqrt{22})/3$ Root of $3x^2 - 10x + 1 = 0$	
0	.10435	60762	61039 99835	$(5 - \sqrt{21})/4$ Root of $4x^2 - 10x + 1 = 0$	
0	.10498	75621	12089 02702	$(\sqrt{101} - 9)/10$ Root of $5x^2 + 9x - 1 = 0$	
0	.10557	28090	00084 12144	$(5 - \sqrt{20})/5$ Root of $5x^2 - 10x + 1 = 0$	
0	.10610	72252	24513 09022	$(\sqrt{97} - 9)/8$ Root of $4x^2 + 9x - 1 = 0$	

(continued)

Table II (continued)

						Ref.
0	.10727	51268	32159 16596	$(\sqrt{93} - 9)/6$	Root of $3x^2 + 9x - 1 = 0$	
0	.10849	52830	14150 95283	$(\sqrt{89} - 9)/4$	Root of $2x^2 + 9x - 1 = 0$	
0	.10977	22286	46443 65500	$(\sqrt{85} - 9)/2$	Root of $x^2 + 9x - 1 = 0$	
0	.11251	78063	03938 96980	$(9 - \sqrt{77})/2$	Root of $x^2 - 9x + 1 = 0$	
0	.11399	90636	70617 20803	$(9 - \sqrt{73})/4$	Root of $2x^2 - 9x + 1 = 0$	
1246	.11448	60424	54414 72656	Chi(10)		9
1246	.11449	01994	23344 41188	Shi(10)		9
0	.11556	26895	13654 19124	$(9 - \sqrt{69})/6$	Root of $3x^2 - 9x + 1 = 0$	
0	.11651	51389	91168 00132	$(\sqrt{21} - 4)/5$	Root of $5x^2 + 8x - 1 = 0$	
0	.11721	77814	62681 29345	$(9 - \sqrt{65})/8$	Root of $4x^2 - 9x + 1 = 0$	
0	.11897	50324	09334 56059	$(9 - \sqrt{61})/10$	Root of $5x^2 - 9x + 1 = 0$	
0	.11962	97860	08000 32763	Ci(3)		9
0	.11963	29811	80224 51741	$(\sqrt{19} - 4)/3$	Root of $3x^2 + 8x - 1 = 0$	
0	.12232	42434	26244 52626	$\sum_{n=1}^{\infty} 1/(10^n - 1)$		
0	.12243	38825	32009 55729	Ci(8)		9
0	.12917	13066	13029 30721	$(4 - \sqrt{14})/2$	Root of $2x^2 - 8x + 1 = 0$	
0	.13066	23862	91807 48526	$(\sqrt{69} - 7)/10$	Root of $5x^2 + 7x - 1 = 0$	
1	.13118	99753	24249 98904	$(16 \ln 4)/9 - 4/3$		
0	.13148	29081	78670 23563	$(4 - \sqrt{13})/3$	Root of $3x^2 - 8x + 1 = 0$	
0	.13278	22185	37318 70655	$(\sqrt{65} - 7)/8$	Root of $4x^2 + 7x - 1 = 0$	
0	.13397	45962	15561 35324	$(2 - \sqrt{3})/2$	Root of $4x^2 - 8x + 1 = 0$	
0	.13504	16126	51109 06569	$(\sqrt{61} - 7)/6$	Root of $3x^2 + 7x - 1 = 0$	
2	.13622	91495	73721 63515	$(3 + \sqrt{59})/5$	Root of $5x^2 - 6x - 10 = 0$	
0	.13667	50419	28920 03018	$(4 - \sqrt{11})/5$	Root of $5x^2 - 8x + 1 = 0$	
0	.13745	86088	17687 42431	$(\sqrt{57} - 7)/4$	Root of $2x^2 + 7x - 1 = 0$	
1	.13838	99949	71661 86097	$1 + 1/2^3 + 1/3^4 + 1/4^5 + 1/5^6 + \dots$		
4	.13873	28290	31887 64957	$(5 + \sqrt{55})/3$	Root of $3x^2 - 10x - 10 = 0$	
0	.13904	51176	62188 12936	$\sum_{n=1}^{\infty} 1/(9^n - 1)$		
0	.14005	49446	40259 13555	$(\sqrt{53} - 7)/2$	Root of $x^2 + 7x - 1 = 0$	
2	.14064	14779	55609 99654	$\psi(9)$		1
0	.14098	16978	86930 41164	$-ci(4)$		9
1	.14568	32294	80096 03035	$(\sqrt{209} - 3)/10$	Root of $5x^2 + 3x - 10 = 0$	
0	.14589	80337	50315 45539	$(7 - \sqrt{45})/2$	Root of $x^2 - 7x + 1 = 0$	
0	.14833	14773	54788 27712	$(\sqrt{14} - 3)/5$	Root of $5x^2 + 6x - 1 = 0$	
0	.14921	89406	41787 82838	$(7 - \sqrt{41})/4$	Root of $2x^2 - 7x + 1 = 0$	
0	.15138	78188	65997 32328	$(\sqrt{13} - 3)/4$	Root of $4x^2 + 6x - 1 = 0$	
0	.15287	29116	16963 38517	$(7 - \sqrt{37})/6$	Root of $3x^2 - 7x + 1 = 0$	
1	.15646	59966	25053 62781	$(\sqrt{46} - 1)/5$	Root of $5x^2 + 2x - 9 = 0$	
0	.15692	96691	82746 41752	$(7 - \sqrt{33})/8$	Root of $4x^2 - 7x + 1 = 0$	
0	.15831	23951	77699 92456	$(\sqrt{11} - 3)/2$	Root of $2x^2 + 6x - 1 = 0$	

(continued)

Table II (continued)

				Ref.	
0	.16096	61843	15062 39681	$\sum_{n=1}^{\infty} 1/(8^n - 1)$	
0	.16148	35192	86549 59687	$(7 - \sqrt{29})/10$ Root of $5x^2 - 7x + 1 = 0$	
1	.16885	77540	44952 03802	$(\sqrt{161} - 1)/10$ Root of $5x^2 + x - 8 = 0$	
0	.17082	03932	49936 90892	$(\sqrt{45} - 5)/10$ Root of $5x^2 + 5x - 1 = 0$	
1	.17116	46096	06622 70618	$(\sqrt{153} - 3)/8$ Root of $4x^2 + 3x - 9 = 0$	
1	.17359	90964	65382 58002	$(\sqrt{145} - 5)/6$ Root of $3x^2 + 5x - 10 = 0$	
0	.17476	26392	99443 53642	$1/2^3 + 1/3^3 + 1/5^3 + 1/7^3 + 1/11^3 + \dots$ all primes	7
0	.17539	05296	79106 08581	$(\sqrt{41} - 5)/8$ Root of $4x^2 + 5x - 1 = 0$	
5	.17617	49776	79906 27728	$(9 + \sqrt{137})/4$ Root of $2x^2 - 9x - 7 = 0$	
0	.17712	43444	67704 70475	$(3 - \sqrt{7})/2$ Root of $2x^2 - 6x + 1 = 0$	
1	.17741	00225	15474 69101	$\sqrt{\ln 4}$	
0	.18046	04217	16369 94817	$(\sqrt{37} - 5)/6$ Root of $3x^2 + 5x - 1 = 0$	
0	.18340	72671	69888 45914	$-\ln D_{\infty}$ $D_{\infty} = 0.83242 \dots$	12
0	.18350	34190	72273 96727	$(3 - \sqrt{6})/3$ Root of $3x^2 - 6x + 1 = 0$	
40	.18527	53558	03177 45509	Ei(5)	9
0	.18614	06616	34507 16496	$(\sqrt{33} - 5)/4$ Root of $2x^2 + 5x - 1 = 0$	
7	.18808	27289	76032 70208	$\Gamma(\pi + 1)$	
0	.18925	47876	10007 30737	$(\sqrt{31} - 5)/3$ Root of $3x^2 + 10x - 2 = 0$	
220	.18993	09346	07712 53626	Chi(8)	9
220	.18996	86002	30556 46116	Shi(8)	9
0	.19002	97496	56643 87862	-Ci(5)	9
0	.19091	00624	10261 57820	$\sum_{n=1}^{\infty} 1/(\tau^n - 1)$	
0	.19098	30056	25052 57590	$(3 - \sqrt{5})/4$ Root of $4x^2 - 6x + 1 = 0$	
0	.19258	24035	67252 01563	$(\sqrt{29} - 5)/2$ Root of $x^2 + 5x - 1 = 0$	
2	.19773	78764	02949 53317	$\psi(19/2)$	1
3	.20256	24189	76663 59853	$(5 + \sqrt{61})/4$ Root of $4x^2 - 10x - 9 = 0$	
0	.20376	82265	91831 17600	$(\sqrt{113} - 9)/8$ Root of $4x^2 + 9x - 2 = 0$	
0	.20782	51276	59933 06387	$(\sqrt{105} - 9)/6$ Root of $3x^2 + 9x - 2 = 0$	
1	.21034	78913	55001 97741	$(\sqrt{241} - 1)/12$ Root of $6x^2 + x - 10 = 0$	
0	.21221	44504	49026 18044	$(\sqrt{97} - 9)/4$ Root of $2x^2 + 9x - 2 = 0$	
2	.21327	45950	42155 59272	$(7 + \sqrt{229})/10$ Root of $5x^2 - 7x - 9 = 0$	
0	.21370	03521	53108 81592	$(5 - \sqrt{19})/3$ Root of $3x^2 - 10x + 2 = 0$	
0	.21460	18366	02551 69038	$1 - \pi/4$	
0	.21525	04370	21530 19683	$(\sqrt{7} - 2)/3$ Root of $3x^2 + 4x - 1 = 0$	
0	.21699	05660	28301 90566	$(\sqrt{89} - 9)/2$ Root of $x^2 + 9x - 2 = 0$	
0	.21922	35935	95584 86254	$(5 - \sqrt{17})/4$ Root of $2x^2 - 5x + 1 = 0$	
0	.21980	39027	18556 96601	$(\sqrt{26} - 4)/5$ Root of $5x^2 + 8x - 2 = 0$	
0	.22540	33307	58516 62296	$(5 - \sqrt{15})/5$ Root of $5x^2 - 10x + 2 = 0$	
0	.22799	81273	41234 41606	$(9 - \sqrt{73})/2$ Root of $x^2 - 9x + 2 = 0$	
1	.22828	56857	08569 99960	$(\sqrt{51} - 1)/5$ Root of $5x^2 + 2x - 10 = 0$	

(continued)

Table II (continued)

						Ref.	
0	.23013	85866	07809	85152	$(\sqrt{22} - 4)/3$	Root of $3x^2 + 8x - 2 = 0$	
0	.23414	91301	34809	20649	$\sum_{l=1}^{\infty} 1/(6^n - 1)$		
0	.23443	55629	25362	58691	$(9 - \sqrt{65})/4$	Root of $2x^2 - 9x + 2 = 0$	
0	.23851	64807	13450	40313	$(\sqrt{29} - 3)/10$	Root of $5x^2 + 3x - 1 = 0$	
0	.24169	42607	88208	38379	$(9 - \sqrt{57})/6$	Root of $3x^2 - 9x + 2 = 0$	
0	.24339	81132	05660	38113	$(\sqrt{89} - 7)/10$	Root of $5x^2 + 7x - 2 = 0$	
1	.24536	24047	07371	03172	$(\sqrt{181} - 1)/10$	Root of $5x^2 + x - 9 = 0$	
2	.25175	25890	66721	10765	$\psi(10)$		1
3	.25499	40143	56944	63142	$(7 + \sqrt{157})/6$	Root of $3x^2 - 7x - 9 = 0$	
0	.25733	39575	52921	86131	$(\sqrt{73} - 7)/6$	Root of $3x^2 + 7x - 2 = 0$	
0	.25968	75762	56715	13135	$(9 - \sqrt{41})/10$	Root of $5x^2 - 9x + 2 = 0$	
5	.26039	86446	98073	87003	$(9 + \sqrt{145})/4$	Root of $2x^2 - 9x - 8 = 0$	
0	.26376	26158	25973	33443	$(\sqrt{21} - 3)/6$	Root of $3x^2 + 3x - 1 = 0$	
0	.26556	44370	74637	41309	$(\sqrt{65} - 7)/4$	Root of $2x^2 + 7x - 2 = 0$	
1	.26863	62411	79519	66011	$\sqrt{\ln 5}$		
0	.27069	06325	74554	92225	$(\sqrt{37} - 5)/4$	Root of $4x^2 + 10x - 3 = 0$	
0	.27177	97887	08134	71045	$(\sqrt{19} - 3)/5$	Root of $5x^2 + 6x - 2 = 0$	
0	.27491	72176	35374	84862	$(\sqrt{57} - 7)/2$	Root of $x^2 + 7x - 2 = 0$	
0	.27639	32022	50021	03036	$(5 - \sqrt{5})/10$	Root of $5x^2 - 5x + 1 = 0$	
0	.27698	39649	48433	49029	$(\sqrt{34} - 5)/3$	Root of $3x^2 + 10x - 3 = 0$	
2	.27797	33838	05950	00453	$(7 + \sqrt{249})/10$	Root of $5x^2 - 7x - 10 = 0$	
0	.27924	07799	43873	55600	$(4 - \sqrt{10})/3$	Root of $3x^2 - 8x + 2 = 0$	
0	.28077	64064	04415	13746	$(\sqrt{17} - 3)/4$	Root of $2x^2 + 3x - 1 = 0$	
0	.28388	21814	15010	96106	$(\sqrt{31} - 5)/2$	Root of $2x^2 + 10x - 3 = 0$	
0	.28743	42087	03791	72347	$(\sqrt{141} - 9)/10$	Root of $5x^2 + 9x - 3 = 0$	
0	.28989	79485	56635	61964	$(\sqrt{6} - 1)/5$	Root of $5x^2 + 2x - 1 = 0$	
0	.29289	32188	13452	47560	$(2 - \sqrt{2})/2$	Root of $2x^2 - 4x + 1 = 0$	
0	.29472	70864	50068	40272	$(\sqrt{129} - 9)/8$	Root of $4x^2 + 9x - 3 = 0$	
2	.29666	29547	09576	55423	$(4 + \sqrt{56})/5$	Root of $5x^2 - 8x - 8 = 0$	
1	.29843	78812	83575	65676	$(9 - \sqrt{41})/2$	Root of $x^2 - 9x + 10 = 0$	
1	.30129	02845	68573	00855	$\pi(\sqrt{2} - 1)$		
0	.30173	38535	97972	45795	$\sum_{l=1}^{\infty} 1/(5^n - 1)$		
2	.30300	10342	97686	37527	$\psi(21/2)$		1
0	.30622	57748	29854	96524	$(\sqrt{65} - 5)/10$	Root of $5x^2 + 5x - 2 = 0$	
0	.30958	42401	76570	44543	$5 - \sqrt{22}$	Root of $x^2 - 10x + 3 = 0$	
0	.31010	20514	43364	38036	$(4 - \sqrt{6})/5$	Root of $5x^2 - 8x + 2 = 0$	
0	.31173	76914	89899	59581	$(\sqrt{105} - 9)/4$	Root of $2x^2 + 9x - 3 = 0$	
0	.31355	28725	66004	38442	$(\sqrt{31} - 4)/5$	Root of $5x^2 + 8x - 3 = 0$	
0	.31385	93383	65492	83504	$(7 - \sqrt{33})/4$	Root of $2x^2 - 7x + 2 = 0$	
1	.31774	46878	75782	52030	$(\sqrt{201} - 1)/10$	Root of $5x^2 + x - 10 = 0$	

(continued)

Table II (continued)

						Ref.
0	.31872	93044	08843 71215	$(\sqrt{57} - 5)/8$	Root of $4x^2 + 5x - 2 = 0$	
0	.32055	05282	29663 22388	$(5 - \sqrt{19})/2$	Root of $2x^2 - 10x + 3 = 0$	
0	.32182	53804	96477 49788	$(\sqrt{93} - 9)/2$	Root of $x^2 + 9x - 3 = 0$	
2	.32518	38135	91930 41813	$(5 + \sqrt{185})/8$	Root of $4x^2 - 5x - 10 = 0$	
1	.33856	61990	45850 32847	$\sqrt{\ln 6}$		
5	.34232	92192	13245 41237	$(9 + \sqrt{153})/4$	Root of $2x^2 - 9x - 9 = 0$	
0	.34403	06508	91055 01798	$(\sqrt{109} - 7)/10$	Root of $5x^2 + 7x - 3 = 0$	
0	.34668	80685	40962 57371	$(9 - \sqrt{69})/2$	Root of $x^2 - 9x + 3 = 0$	
0	.34833	14773	54788 27712	$(\sqrt{14} - 2)/5$	Root of $5x^2 + 4x - 2 = 0$	
1	.34838	31066	34907 16751	$2\pi - \pi^2/2$		
0	.34861	21811	34002 67672	$(5 - \sqrt{13})/4$	Root of $4x^2 - 10x + 3 = 0$	
0	.35078	10593	58212 17162	$(\sqrt{41} - 5)/4$	Root of $2x^2 + 5x - 2 = 0$	
2	.35175	25890	66721 10765	$\psi(11)$		1
0	.35610	72252	24513 09022	$(\sqrt{97} - 7)/8$	Root of $4x^2 + 7x - 3 = 0$	
0	.35825	75694	95584 00066	$(\sqrt{21} - 1)/10$	Root of $5x^2 + x - 1 = 0$	
0	.35961	17967	97792 43127	$(7 - \sqrt{17})/8$	Root of $4x^2 - 7x + 2 = 0$	
0	.36092	08434	32739 89633	$(\sqrt{37} - 5)/3$	Root of $3x^2 + 10x - 4 = 0$	
2	.36204	99351	81330 87883	$(4 + \sqrt{61})/5$	Root of $5x^2 - 8x - 9 = 0$	
0	.36602	54037	84438 64676	$(\sqrt{3} - 1)/2$	Root of $2x^2 + 2x - 1 = 0$	
0	.36754	44679	66324 13360	$(5 - \sqrt{10})/5$	Root of $5x^2 - 10x + 3 = 0$	
0	.36885	77540	44952 03802	$(\sqrt{161} - 9)/10$	Root of $5x^2 + 9x - 4 = 0$	
0	.36992	40762	15481 21833	$(\sqrt{85} - 7)/6$	Root of $3x^2 + 7x - 3 = 0$	
0	.37228	13232	69014 32993	$(\sqrt{33} - 5)/2$	Root of $x^2 + 5x - 2 = 0$	
2	.37365	46754	40107 76432	$2\sum_{n=1}^{\infty} 1/(n^2 - n + 2) = (2\pi/\sqrt{7})\tanh(\pi\sqrt{7}/2)$		
0	.37979	58971	13271 23928	$(\sqrt{24} - 3)/5$	Root of $5x^2 + 6x - 3 = 0$	
0	.38019	93223	49036 93502	$(\sqrt{145} - 9)/8$	Root of $4x^2 + 9x - 4 = 0$	
0	.38600	09363	29382 79197	$(\sqrt{73} - 7)/4$	Root of $2x^2 + 7x - 3 = 0$	
2	.38619	46792	57460 27871	$\pi(\pi^2 + 2\pi - 4)/16$		
2	.38660	68747	31850 55226	$(9 + \sqrt{221})/10$	Root of $5x^2 - 9x - 7 = 0$	
1	.38887	09263	59528 90151	$\psi(9/2)$		1
0	.39296	94486	00091 20363	$(\sqrt{129} - 9)/6$	Root of $3x^2 + 9x - 4 = 0$	
1	.39495	88341	79458 25241	$\sqrt{\ln 7}$		
0	.39564	39237	38960 00165	$(\sqrt{21} - 3)/4$	Root of $4x^2 + 6x - 3 = 0$	
2	.39823	91295	35781 61337	$\psi(23/2)$		1
4	.39827	23894	47946 39597	$e\tau \quad \tau = (1 + \sqrt{5})/2$		
1	.40496	29462	08145 27863	$\pi/\sqrt{5}$		
0	.40512	48379	53327 19706	$(\sqrt{61} - 7)/2$	Root of $x^2 + 7x - 3 = 0$	
3	.40586	99863	09566 92470	Root of $\Gamma(x) = 3$		
0	.40673	66430	75800 20775	$\sin 24^\circ = (\sqrt{3} + \sqrt{15} - \sqrt{10 - 2\sqrt{5}})/8$		
2	.40692	33317	82309 93684	$(\pi\sqrt{2}/24)e^{\pi\sqrt{6}/3}$		

(continued)

Table II (continued)

						Ref.
0	.40692	96691	82746 41752	$(9 - \sqrt{33})/8$	Root of $4x^2 - 9x + 3 = 0$	
0	.40753	64531	83662 35200	$(\sqrt{113} - 9)/4$	Root of $2x^2 + 9x - 4 = 0$	
0	.40964	98555	98112 20915	$10\pi - \pi^3$		
0	.41886	11699	15810 33400	$(4 - \sqrt{10})/2$	Root of $2x^2 - 8x + 3 = 0$	
0	.42109	76860	33423 77730	$\sum_{n=1}^{\infty} 1/(4^n - 1)$		
0	.42195	44457	29288 73100	$(\sqrt{85} - 5)/10$	Root of $5x^2 + 5x - 3 = 0$	
5	.42214	43851	12380 09505	$(9 + \sqrt{161})/4$	Root of $2x^2 - 9x - 10 = 0$	
0	.42264	97308	10374 23549	$(3 - \sqrt{3})/3$	Root of $3x^2 - 6x + 2 = 0$	
0	.42298	08287	74864 99570	Ci(2)		9
0	.42442	89008	98052 36087	$(\sqrt{97} - 9)/2$	Root of $x^2 + 9x - 4 = 0$	
1	.42468	75512	80506 53577	Si(6)		9
2	.42480	76809	27192 07209	$(4 + \sqrt{66})/5$	Root of $5x^2 - 8x - 10 = 0$	
0	.42539	05296	79106 08581	$(\sqrt{41} - 3)/8$	Root of $4x^2 + 3x - 2 = 0$	
0	.42705	09831	24842 27231	$(\sqrt{45} - 5)/4$	Root of $4x^2 + 10x - 5 = 0$	
0	.43050	08740	43060 39367	$(\sqrt{28} - 4)/3$	Root of $3x^2 + 8x - 4 = 0$	
0	.43578	16691	60054 72218	$(\sqrt{129} - 7)/10$	Root of $5x^2 + 7x - 4 = 0$	
0	.43649	16731	03708 44259	$(\sqrt{15} - 3)/2$	Root of $2x^2 + 6x - 3 = 0$	
0	.43844	71871	91169 72509	$(5 - \sqrt{17})/2$	Root of $x^2 - 5x + 2 = 0$	
0	.44151	84401	12252 88800	$(\sqrt{40} - 5)/3$	Root of $3x^2 + 10x - 5 = 0$	
0	.44174	24305	04415 99934	$(9 - \sqrt{21})/10$	Root of $5x^2 - 9x + 3 = 0$	
1	.44202	68866	00883 01706	$\sqrt{\ln 8}$		
2	.44266	16799	75812 01674	$\psi(12)$		1
0	.44300	04681	64691 39598	$(\sqrt{73} - 5)/8$	Root of $4x^2 + 5x - 3 = 0$	
0	.44536	24047	07371 03172	$(\sqrt{181} - 9)/10$	Root of $5x^2 + 9x - 5 = 0$	
0	.45141	62296	45136 46983	$(4 - \sqrt{7})/3$	Root of $3x^2 - 8x + 3 = 0$	
2	.45241	74696	26002 37289	$(9 + \sqrt{241})/10$	Root of $5x^2 - 9x - 8 = 0$	
2	.45266	69226	46914 52191	Chi(2)		9
0	.45376	82265	91831 17600	$(\sqrt{113} - 7)/8$	Root of $4x^2 + 7x - 4 = 0$	
1	.45459	66142	48093 59061	Si(7)		9
0	.45742	71077	56338 10998	$(\sqrt{33} - 3)/6$	Root of $3x^2 + 3x - 2 = 0$	
0	.45803	98915	49808 02128	$(\sqrt{35} - 5)/2$	Root of $2x^2 + 10x - 5 = 0$	
0	.45861	87348	50890 15550	$(7 - \sqrt{37})/2$	Root of $x^2 - 7x + 3 = 0$	
0	.46107	21925	56190 04752	$(\sqrt{161} - 9)/8$	Root of $4x^2 + 9x - 5 = 0$	
2	.46237	81322	79807 67369	$(\pi/48)e^{2\pi/\sqrt{3}}$		
0	.46332	49580	71079 96982	$(\sqrt{11} - 1)/5$	Root of $5x^2 + 2x - 2 = 0$	
0	.46481	62415	12003 56896	$(5 - \sqrt{13})/3$	Root of $3x^2 - 10x + 4 = 0$	
0	.46837	49459	84442 39902	$(\sqrt{61} - 5)/6$	Root of $3x^2 + 5x - 3 = 0$	
0	.46887	11258	50725 17382	$(9 - \sqrt{65})/2$	Root of $x^2 - 9x + 4 = 0$	
0	.47177	97887	08134 71045	$(\sqrt{19} - 2)/5$	Root of $5x^2 + 4x - 3 = 0$	
0	.47480	96336	32684 12029	$(\sqrt{97} - 7)/6$	Root of $3x^2 + 7x - 4 = 0$	

(continued)

Table II (continued)

						Ref.	
0	.47703	29614	26900	80625	$(\sqrt{29} - 3)/5$	Root of $5x^2 + 6x - 4 = 0$	
11	.47797	31099	61418	80827	$-\sum_{n=2}^{\infty} (-1)^n / \ln \ln n$		
0	.47905	70145	06319	53911	$(\sqrt{141} - 9)/6$	Root of $3x^2 + 9x - 5 = 0$	
0	.48062	48474	86569	73730	$(\sqrt{41} - 4)/5$	Root of $5x^2 + 8x - 5 = 0$	
1	.48230	38073	67511	07584	$\sqrt{\ln 9}$		
2	.48519	56512	74912	04815	$\psi(25/2)$		1
2	.51554	94421	40351	20938	$(9 + \sqrt{261})/10$	Root of $5x^2 - 9x - 9 = 0$	
1	.51742	71293	85146	35086	$\sqrt{\ln 10}$		
0	.51774	46878	75782	52030	$(\sqrt{201} - 9)/10$	Root of $5x^2 + 9x - 6 = 0$	
0	.51914	61747	67333	55078	$(\sqrt{43} - 5)/3$	Root of $3x^2 + 10x - 6 = 0$	
0	.52065	55615	73370	29519	$(\sqrt{149} - 7)/10$	Root of $5x^2 + 7x - 5 = 0$	
0	.52258	81209	43340	64071	$(\sqrt{31} - 4)/3$	Root of $3x^2 + 8x - 5 = 0$	
0	.52469	50765	95959	83832	$(\sqrt{105} - 5)/10$	Root of $5x^2 + 5x - 4 = 0$	
0	.52493	78105	60445	13511	$(\sqrt{101} - 9)/2$	Root of $x^2 + 9x - 5 = 0$	
2	.52599	50133	09145	35007	$\psi(13)$		1
0	.53066	23862	91807	48526	$(\sqrt{69} - 3)/10$	Root of $5x^2 + 3x - 3 = 0$	
0	.53112	88741	49274	82618	$(\sqrt{65} - 7)/2$	Root of $x^2 + 7x - 4 = 0$	
0	.53518	37584	87996	43104	$(\sqrt{13} - 2)/3$	Root of $3x^2 + 4x - 3 = 0$	
0	.53801	68369	56258	84063	$(\sqrt{177} - 9)/8$	Root of $4x^2 + 9x - 6 = 0$	
0	.54031	24237	43284	86865	$(\sqrt{41} - 1)/10$	Root of $5x^2 + x - 2 = 0$	
0	.54138	12651	49109	84450	$(\sqrt{37} - 5)/2$	Root of $x^2 + 5x - 3 = 0$	
0	.54257	28922	43661	89002	$(9 - \sqrt{33})/6$	Root of $3x^2 - 9x + 4 = 0$	
0	.54472	70864	50068	40272	$(\sqrt{129} - 7)/8$	Root of $4x^2 + 7x - 5 = 0$	
0	.54858	37703	54863	53017	$(\sqrt{7} - 1)/3$	Root of $3x^2 + 2x - 2 = 0$	
1	.54993	12449	44674	13727	$\text{Si}(5)$		9
0	.55278	64045	00042	06072	$(5 - \sqrt{5})/5$	Root of $5x^2 - 10x + 4 = 0$	
0	.55424	76415	07075	47642	$(\sqrt{89} - 5)/8$	Root of $4x^2 + 5x - 4 = 0$	
0	.55646	59966	25053	62781	$(\sqrt{46} - 4)/5$	Root of $5x^2 + 8x - 6 = 0$	
0	.55825	75694	95584	00066	$(1 + \sqrt{21})/10$	Root of $5x^2 - x - 1 = 0$	
0	.56155	28128	08830	27491	$(\sqrt{17} - 3)/2$	Root of $x^2 + 3x - 2 = 0$	
0	.56350	83268	96291	55741	$(5 - \sqrt{15})/2$	Root of $2x^2 - 10x + 5 = 0$	
2	.56509	96603	23728	19109	$\pi\sqrt{6}/3$		
2	.56519	56512	74912	04815	$\psi(27/2)$		1
0	.56574	14540	89335	11781	$(7 - \sqrt{13})/6$	Root of $3x^2 - 7x + 3 = 0$	
0	.56619	03789	69060	09417	$(\sqrt{34} - 3)/5$	Root of $5x^2 + 6x - 5 = 0$	
0	.56872	93044	08843	71215	$(\sqrt{57} - 3)/8$	Root of $4x^2 + 3x - 3 = 0$	
0	.57002	74723	20129	56777	$(\sqrt{53} - 5)/4$	Root of $4x^2 + 10x - 7 = 0$	
0	.57338	44181	51758	36329	$(\sqrt{109} - 7)/6$	Root of $3x^2 + 7x - 5 = 0$	
1	.57418	68217	06942	05208	$\text{Si}(8)$		9
0	.57556	36164	97977	70407	$\sum_{n=0}^{\infty} (-1)^n n! / (2n)! = 1 - D(1/2)$	Dawson's integral	35

(continued)

Table II (continued)

					Ref.	
2	.57630	54614	24021 01284	$(9 + \sqrt{281})/10$	Root of $5x^2 - 9x - 10 = 0$	
0	.57979	58971	13271 23928	$(\sqrt{24} - 2)/5$	Root of $5x^2 + 4x - 4 = 0$	
0	.58660	68747	31850 55226	$(\sqrt{221} - 9)/10$	Root of $5x^2 + 9x - 7 = 0$	
0	.58945	41729	00136 80545	$(\sqrt{129} - 9)/4$	Root of $2x^2 + 9x - 6 = 0$	
0	.59066	72908	86255 19465	$(\sqrt{73} - 5)/6$	Root of $3x^2 + 5x - 4 = 0$	
1	.59229	65364	69326 57566	$\sum_{n=0}^{\infty} n!/(2n)! = 1 + e^{1/4} \int_0^{1/2} e^{-x^2} dx$		
0	.59307	03308	17253 58248	$(\sqrt{33} - 1)/8$	Root of $4x^2 + x - 2 = 0$	
0	.59410	99943	75089 37969	$(\sqrt{46} - 5)/3$	Root of $3x^2 + 10x - 7 = 0$	
0	.59487	51620	46672 80294	$(9 - \sqrt{61})/2$	Root of $x^2 - 9x + 5 = 0$	
0	.59629	12017	83626 00781	$(\sqrt{29} - 3)/4$	Root of $4x^2 + 6x - 5 = 0$	
0	.59696	55555	78483 22458	$1 - 1/2 + 1/3^2 - 1/4^3 + 1/5^4 - \dots$		
2	.60291	80902	32222 27315	$\psi(14)$		1
1	.60541	29768	02694 84858	$Si(2)$		9
1	.60669	51524	15291 76378	$\sum_{n=1}^{\infty} 1/(2^n - 1)$		
0	.60849	52830	14150 95283	$(\sqrt{89} - 7)/4$	Root of $2x^2 + 7x - 5 = 0$	
0	.60961	17967	97792 43127	$(9 - \sqrt{17})/8$	Root of $4x^2 - 9x + 4 = 0$	
0	.61031	72982	81766 82362	$(\sqrt{34} - 4)/3$	Root of $3x^2 + 8x - 6 = 0$	
1	.61109	31485	81751 12373	$\psi(11/2)$		1
0	.61155	54986	81225 56355	$(\sqrt{193} - 9)/8$	Root of $4x^2 + 9x - 7 = 0$	
0	.61257	41132	77206 88933	$(5 - \sqrt{10})/3$	Root of $3x^2 - 10x + 5 = 0$	
1	.62229	46066	03504 34354	$(2\pi/\sqrt{15}) \tanh(\pi\sqrt{15}/2)$		
0	.62249	89991	99199 10292	$(\sqrt{39} - 5)/2$	Root of $2x^2 + 10x - 7 = 0$	
0	.62347	53829	79799 19161	$(\sqrt{105} - 9)/2$	Root of $x^2 + 9x - 6 = 0$	
0	.62771	86767	30985 67007	$(7 - \sqrt{33})/2$	Root of $x^2 - 7x + 4 = 0$	
0	.62828	56857	08569 99960	$(\sqrt{51} - 4)/5$	Root of $5x^2 + 8x - 7 = 0$	
1	.62847	37129	01584 44706	$1 + 1/2 + 1/3^2 + 1/4^3 + 1/5^4 + \dots$		
0	.63019	93223	49036 93502	$(\sqrt{145} - 7)/8$	Root of $4x^2 + 7x - 6 = 0$	
19	.63087	44700	56220 02265	$Ei(4)$		9
0	.63397	45962	15561 35324	$(3 - \sqrt{3})/2$	Root of $2x^2 - 6x + 3 = 0$	
0	.63745	86088	17687 42431	$(\sqrt{57} - 5)/4$	Root of $2x^2 + 5x - 4 = 0$	
0	.64038	82032	02207 56873	$(1 + \sqrt{17})/8$	Root of $4x^2 - x - 1 = 0$	
0	.64087	20964	44188 17002	$(\sqrt{165} - 9)/6$	Root of $3x^2 + 9x - 7 = 0$	
0	.64339	81132	05660 38113	$(\sqrt{89} - 3)/10$	Root of $5x^2 + 3x - 4 = 0$	
0	.64899	95996	79679 64117	$(\sqrt{39} - 3)/5$	Root of $5x^2 + 6x - 6 = 0$	
0	.64921	89406	41787 82838	$(9 - \sqrt{41})/4$	Root of $2x^2 - 9x + 5 = 0$	
1	.65068	26068	16254 39108	$-Y_2(1)$	Bessel Function	
0	.65138	78188	65997 32328	$(\sqrt{13} - 1)/4$	Root of $4x^2 + 2x - 3 = 0$	
0	.65241	74696	26002 37289	$(\sqrt{241} - 9)/10$	Root of $5x^2 + 9x - 8 = 0$	
0	.65331	19314	59037 42629	$(\sqrt{69} - 7)/2$	Root of $x^2 + 7x - 5 = 0$	
0	.65583	16008	67491 60560	$\sum_{n=1}^{\infty} (-1)^n n! / n^n$		

(continued)

Table II (continued)

						Ref.	
0	.65586	88457	44949	79790	$(\sqrt{105} - 5)/8$	Root of $4x^2 + 5x - 5 = 0$	
1	.65834	75942	18874	04933	$Si(10)$		
3	.66403	27972	06446	15569	Root of $\Gamma(x) = 4$		
1	.66504	00758	29602	49511	$Si(9)$		
2	.67434	66616	60793	70172	$\psi(15)$		1
0	.67477	27084	86752	00198	$(\sqrt{189} - 7)/10$	Root of $5x^2 + 7x - 7 = 0$	
0	.67617	49776	79906	27728	$(\sqrt{137} - 9)/4$	Root of $2x^2 + 9x - 7 = 0$	
0	.67703	29614	26900	80625	$(\sqrt{29} - 2)/5$	Root of $5x^2 + 4x - 5 = 0$	
0	.67944	94717	70336	77612	$(\sqrt{19} - 3)/2$	Root of $2x^2 + 6x - 5 = 0$	
1	.67999	05609	88901	16061	e/τ $\tau = (1 + \sqrt{5})/2$		
0	.68102	49675	90665	43941	$(\sqrt{61} - 1)/10$	Root of $5x^2 + x - 3 = 0$	
0	.68210	40368	50120	03794	$(\sqrt{209} - 9)/8$	Root of $4x^2 + 9x - 8 = 0$	
0	.68215	35026	05238	06676	$\sum_{n=1}^{\infty} 1/(3^n - 1)$		
0	.68614	06616	34507	16496	$(\sqrt{33} - 3)/4$	Root of $2x^2 + 3x - 3 = 0$	
0	.68989	79485	56635	61964	$(1 + \sqrt{6})/5$	Root of $5x^2 - 2x - 1 = 0$	
0	.69098	30056	25052	57590	$(5 - \sqrt{5})/4$	Root of $4x^2 - 10x + 5 = 0$	
0	.69300	04681	64691	39598	$(\sqrt{73} - 3)/8$	Root of $4x^2 + 3x - 4 = 0$	
0	.69425	41767	66073	22967	$(\sqrt{37} - 4)/3$	Root of $3x^2 + 8x - 7 = 0$	
0	.69666	29547	09576	55423	$(\sqrt{56} - 4)/5$	Root of $5x^2 + 8x - 8 = 0$	
0	.69722	43622	68005	35344	$(5 - \sqrt{13})/2$	Root of $x^2 - 5x + 3 = 0$	
0	.70156	21187	16424	34324	$(\sqrt{41} - 5)/2$	Root of $x^2 + 5x - 4 = 0$	
0	.70256	24189	76663	59853	$(\sqrt{61} - 5)/4$	Root of $4x^2 + 10x - 9 = 0$	
0	.70315	66406	45243	18723	$\psi(5/2)$		1
0	.70325	74095	48814	55167	$(\sqrt{85} - 5)/6$	Root of $3x^2 + 5x - 5 = 0$	
0	.70415	94578	79229	54801	$(\sqrt{145} - 5)/10$	Root of $5x^2 + 5x - 6 = 0$	
2	.70823	52425	90365	43257	$\psi(31/2)$		1
0	.71107	21925	56190	04752	$(\sqrt{161} - 7)/8$	Root of $4x^2 + 7x - 7 = 0$	
0	.71221	44504	49026	18044	$(\sqrt{97} - 7)/4$	Root of $2x^2 + 7x - 6 = 0$	
0	.71554	94421	40351	20938	$(\sqrt{261} - 9)/10$	Root of $5x^2 + 9x - 9 = 0$	
0	.71651	51389	91168	00132	$(\sqrt{21} - 1)/5$	Root of $5x^2 + 2x - 4 = 0$	
0	.71735	57826	08345	12084	$(\sqrt{177} - 9)/6$	Root of $3x^2 + 9x - 8 = 0$	
0	.71922	35935	95584	86254	$(7 - \sqrt{17})/4$	Root of $2x^2 - 7x + 4 = 0$	
0	.72015	32544	55275	08988	$(\sqrt{109} - 9)/2$	Root of $x^2 + 9x - 7 = 0$	
0	.72075	92200	56126	44400	$(\sqrt{10} - 1)/3$	Root of $3x^2 + 2x - 3 = 0$	
0	.72360	67977	49978	96964	$(5 + \sqrt{5})/10$	Root of $5x^2 - 5x + 1 = 0$	
0	.72474	48713	91589	04910	$(\sqrt{6} - 1)/2$	Root of $4x^2 + 4x - 5 = 0$	
0	.72508	27823	64625	15138	$(9 - \sqrt{57})/2$	Root of $x^2 - 9x + 6 = 0$	
0	.72664	99161	42159	93965	$(\sqrt{44} - 3)/5$	Root of $5x^2 + 6x - 7 = 0$	
0	.73623	73841	74026	66557	$(9 - \sqrt{21})/6$	Root of $3x^2 - 9x + 5 = 0$	
0	.73703	41836	42659	52875	$(\sqrt{52} - 5)/3$	Root of $3x^2 + 10x - 9 = 0$	

(continued)

Table II (continued)

					Ref.	
0	.74031	24237	43284 86865	$(1 + \sqrt{41})/10$	Root of $5x^2 - x - 2 = 0$	
2	.74101	33283	27460 36839	$\psi(16)$		1
0	.74102	79215	23577 35584	$\sum_{n=1}^{\infty} (-1)^n F_n/n!$	$F_n =$ Fibonacci number	31
0	.74403	06508	91055 01798	$(\sqrt{109} - 3)/10$	Root of $5x^2 + 3x - 5 = 0$	
1	.74471	60499	09719 88354	$\pi^2\sqrt{2}/8$		
0	.74568	32294	80096 03035	$(\sqrt{209} - 7)/10$	Root of $5x^2 + 7x - 8 = 0$	
95	.75231	39268	84892 80742	Chi (7)		9
95	.75242	94086	16503 14564	Shi (7)		9
0	.75542	70991	11799 31489	$(\sqrt{133} - 7)/6$	Root of $3x^2 + 7x - 7 = 0$	
1	.75820	31389	49053 05811	Si(4)		9
0	.75830	57392	11791 61621	$(\sqrt{57} - 3)/6$	Root of $3x^2 + 3x - 4 = 0$	
0	.75983	56856	51592 54733	$3^{-1/4}$		
0	.76039	86446	98073 87003	$(\sqrt{145} - 9)/4$	Root of $2x^2 + 9x - 8 = 0$	
0	.76204	99351	81330 87883	$(\sqrt{61} - 4)/5$	Root of $5x^2 + 8x - 9 = 0$	
0	.76556	44370	74637 41309	$(\sqrt{65} - 5)/4$	Root of $2x^2 + 5x - 5 = 0$	
0	.76619	03789	69060 09417	$(\sqrt{34} - 2)/5$	Root of $5x^2 + 4x - 6 = 0$	
0	.76759	18792	43998 21552	$(1 + \sqrt{13})/6$	Root of $3x^2 - x - 1 = 0$	
1	.76819	80781	53244 98413	$\sum_{p=2}^{\infty} 1/(p^2-1)$	$p =$ all primes	
0	.77069	06325	74554 92225	$(\sqrt{37} - 3)/4$	Root of $4x^2 + 6x - 7 = 0$	
0	.77200	18726	58765 58394	$(\sqrt{73} - 7)/2$	Root of $x^2 + 7x - 6 = 0$	
2	.77275	13716	22623 49709	$\psi(33/2)$		1
1	.77370	30613	64587 49994	$\pi^2/\sqrt{2} - 4\pi(\sqrt{2} - 1)$		
0	.77485	17734	45586 22133	$(\sqrt{40} - 4)/3$	Root of $3x^2 + 8x - 8 = 0$	
0	.77525	51286	08410 95090	$(4 - \sqrt{6})/2$	Root of $2x^2 - 8x + 5 = 0$	
0	.77630	54614	24021 01284	$(\sqrt{281} - 9)/10$	Root of $5x^2 + 9x - 10 = 0$	
0	.77871	92621	51000 32617	$(\sqrt{43} - 5)/2$	Root of $2x^2 + 10x - 9 = 0$	
1	.77930	57612	79915 61379	$4\pi(\pi - 3)$		
0	.78077	64064	04415 13746	$(\sqrt{17} - 1)/4$	Root of $2x^2 + x - 2 = 0$	
0	.78121	28213	00288 71655	$-Y_1(1)$	Bessel Function	
0	.78452	32578	66512 90201	$(\sqrt{165} - 5)/10$	Root of $5x^2 + 5x - 7 = 0$	
0	.78474	95629	78469 80317	$(5 - \sqrt{7})/3$	Root of $3x^2 - 10x + 6 = 0$	
0	.78629	96478	46891 18408	$(\sqrt{19} - 2)/3$	Root of $3x^2 + 4x - 5 = 0$	
0	.78801	68369	56258 84063	$(\sqrt{177} - 7)/8$	Root of $4x^2 + 7x - 8 = 0$	
1	.79291	13303	99932 94192	$\psi(13/2)$		1
1	.79320	95469	54886 07095	$\pi^2/2 - \pi$		
2	.80351	33283	27460 36839	$\psi(17)$		1
0	.80424	76415	07075 47642	$(\sqrt{89} - 3)/8$	Root of $4x^2 + 3x - 5 = 0$	
0	.80539	94956	98554 31624	$(\sqrt{55} - 5)/3$	Root of $3x^2 + 10x - 10 = 0$	
0	.80741	75964	32747 98437	$(7 - \sqrt{29})/2$	Root of $x^2 - 7x + 5 = 0$	
0	.80814	29669	66017 45362	$(\sqrt{97} - 5)/6$	Root of $3x^2 + 5x - 6 = 0$	

(continued)

Table II (continued)

				Ref.	
0	.81173	76914 89899 59581	$(\sqrt{105} - 7)/4$	Root of $2x^2 + 7x - 7 = 0$	
0	.81327	45950 42155 59272	$(\sqrt{229} - 7)/10$	Root of $5x^2 + 7x - 9 = 0$	
9	.81354	75588 23185 55808	Chi (4)		9
0	.81385	93383 65492 83504	$(9 - \sqrt{33})/4$	Root of $2x^2 - 9x + 6 = 0$	
0	.81507	29063 67324 70400	$(\sqrt{113} - 9)/2$	Root of $x^2 + 9x - 8 = 0$	
0	.81552	18370 32502 96611	$(\sqrt{241} - 9)/8$	Root of $4x^2 + 9x - 10 = 0$	
0	.81980	39027 18556 96601	$(\sqrt{26} - 1)/5$	Root of $5x^2 + 2x - 5 = 0$	
0	.82287	56555 32295 29525	$(\sqrt{7} - 1)/2$	Root of $2x^2 + 2x - 3 = 0$	
0	.82480	76809 27192 07209	$(\sqrt{66} - 4)/5$	Root of $5x^2 + 8x - 10 = 0$	
0	.83255	46111 57697 75635	$\sqrt{\ln 2}$		
0	.83578	16691 60054 72218	$(\sqrt{129} - 3)/10$	Root of $5x^2 + 3x - 6 = 0$	
4	.83620	00029 45036 96288	$(e\tau/2)^2$	$\tau = (1 + \sqrt{5})/2$	
0	.83808	74888 39953 13864	$(\sqrt{137} - 5)/8$	Root of $4x^2 + 5x - 7 = 0$	
0	.83851	64807 13450 40313	$(3 + \sqrt{29})/10$	Root of $5x^2 - 3x - 1 = 0$	
0	.84026	57631 32049 24669	$(\sqrt{145} - 7)/6$	Root of $3x^2 + 7x - 8 = 0$	
0	.84168	76048 22300 07544	$(5 - \sqrt{11})/2$	Root of $2x^2 - 10x + 7 = 0$	
0	.84232	92192 13245 41237	$(\sqrt{153} - 9)/4$	Root of $2x^2 + 9x - 9 = 0$	
0	.84307	03308 17253 58248	$(1 + \sqrt{33})/8$	Root of $4x^2 - x - 2 = 0$	
0	.84712	70883 83036 61483	$(\sqrt{37} - 1)/6$	Root of $3x^2 + x - 3 = 0$	
1	.84865	25279 99468 25640	Si(3)		9
0	.84899	95996 79679 64117	$(\sqrt{39} - 2)/5$	Root of $5x^2 + 4x - 7 = 0$	
0	.85078	10593 58212 17162	$(\sqrt{41} - 3)/4$	Root of $2x^2 + 3x - 4 = 0$	
3	.85235	54580 31727 83164	Root of $\Gamma(x) = 5$		
0	.85247	95081 00666 88411	$(\sqrt{43} - 4)/3$	Root of $3x^2 + 8x - 9 = 0$	
6	.85410	19662 49684 54461	$(7 + \sqrt{45})/2$	Root of $x^2 - 7x + 1 = 0$	
0	.85994	50553 59740 86445	$(9 - \sqrt{53})/2$	Root of $x^2 - 9x + 7 = 0$	
0	.86014	70508 73544 33450	$(\sqrt{185} - 5)/10$	Root of $5x^2 + 5x - 8 = 0$	
0	.86155	54986 81225 56355	$(\sqrt{193} - 7)/8$	Root of $4x^2 + 7x - 9 = 0$	
0	.86290	78131 26304 20049	$(\sqrt{201} - 9)/6$	Root of $3x^2 + 9x - 10 = 0$	
0	.86332	49580 71079 96982	$(1 + \sqrt{11})/5$	Root of $5x^2 - 2x - 2 = 0$	
0	.86851	70918 21329 76437	$(\sqrt{13} - 1)/3$	Root of $3x^2 + 2x - 4 = 0$	
0	.86969	38456 69906 85892	$(\sqrt{54} - 3)/5$	Root of $5x^2 + 6x - 9 = 0$	
0	.87797	33838 05950 00453	$(\sqrt{249} - 7)/10$	Root of $5x^2 + 7x - 10 = 0$	
1	.87985	38621 75258 53349	$\sum_{n=1}^{\infty} n!/n^n$		
0	.88102	49675 90665 43941	$(1 + \sqrt{61})/10$	Root of $5x^2 - x - 3 = 0$	
0	.88278	22185 37318 70655	$(\sqrt{65} - 1)/8$	Root of $4x^2 + x - 4 = 0$	
0	.88443	73104 86345 80876	$(\sqrt{69} - 3)/6$	Root of $3x^2 + 3x - 5 = 0$	
0	.88600	09363 29382 79197	$(\sqrt{73} - 5)/4$	Root of $2x^2 + 5x - 6 = 0$	
0	.88642	97105 60312 77996	$1 - 1/2^3 + 1/3^4 - 1/4^5 + 1/5^6 - \dots$		
8	.88748	21936 96061 03020	$(9 + \sqrt{77})/2$	Root of $x^2 - 9x + 1 = 0$	

(continued)

Table II (continued)

						Ref.
1	.89442	71909	99915 87856	$(5 + \sqrt{20})/5$	Root of $5x^2 - 10x + 1 = 0$	
0	.89564	39237	38960 00165	$(\sqrt{21} - 1)/4$	Root of $4x^2 + 2x - 5 = 0$	
0	.89680	52532	74476 51819	$(\sqrt{22} - 2)/3$	Root of $3x^2 + 4x - 6 = 0$	
0	.89791	57616	56359 77080	$(\sqrt{23} - 3)/2$	Root of $2x^2 + 6x - 7 = 0$	
0	.90498	75621	12089 02702	$(\sqrt{101} - 1)/10$	Root of $5x^2 + x - 5 = 0$	
0	.90586	88457	44949 79790	$(\sqrt{105} - 3)/8$	Root of $4x^2 + 3x - 6 = 0$	
0	.90671	77514	85091 69663	$(\sqrt{109} - 5)/6$	Root of $3x^2 + 5x - 7 = 0$	
0	.90753	64531	83662 35200	$(\sqrt{113} - 7)/4$	Root of $2x^2 + 7x - 8 = 0$	
0	.90832	69131	95983 93968	$(\sqrt{117} - 9)/2$	Root of $x^2 + 9x - 9 = 0$	
0	.91354	54576	42600 89550	$\cos 24^\circ = (1 + \sqrt{5} + \sqrt{30 - 6\sqrt{5}})/8$		
0	.91355	28725	66004 38442	$(\sqrt{31} - 1)/5$	Root of $5x^2 + 2x - 6 = 0$	
0	.91421	35623	73095 04880	$(\sqrt{8} - 1)/2$	Root of $4x^2 + 4x - 7 = 0$	
0	.92065	55615	73370 29519	$(\sqrt{149} - 3)/10$	Root of $5x^2 + 3x - 7 = 0$	
0	.92116	46096	06622 70618	$(\sqrt{153} - 5)/8$	Root of $4x^2 + 5x - 8 = 0$	
0	.92166	06810	23611 29808	$(\sqrt{157} - 7)/6$	Root of $3x^2 + 7x - 9 = 0$	
0	.92214	43851	12380 09505	$(\sqrt{161} - 9)/4$	Root of $2x^2 + 9x - 10 = 0$	
0	.92664	99161	42159 93965	$(\sqrt{44} - 2)/5$	Root of $5x^2 + 4x - 8 = 0$	
0	.92705	09831	24842 27231	$(\sqrt{45} - 3)/4$	Root of $4x^2 + 6x - 9 = 0$	
0	.92744	33277	08422 71302	$(\sqrt{46} - 4)/3$	Root of $3x^2 + 8x - 10 = 0$	
0	.93178	21063	27635 31544	$(\sqrt{205} - 5)/10$	Root of $5x^2 + 5x - 9 = 0$	
0	.93210	40368	50120 03794	$(\sqrt{209} - 7)/8$	Root of $4x^2 + 7x - 10 = 0$	
0	.93622	91495	73721 63515	$(\sqrt{59} - 3)/5$	Root of $5x^2 + 6x - 10 = 0$	
518	.93913	91348	67704 82565	Chi (9)		9
518	.93915	15822	21882 83192	Shi (9)		9
1	.94675	74842	46086 78807	$\psi(15/2)$		1
4	.96039	20947	65609 76030	Chi (3)		9
42	.99470	10299	93521 07246	Chi (6)		9
42	.99506	11124	45683 73112	Shi (6)		9

DEFINITIONS
Table III

a_n See Ref. 33

automorphic See Ref. 45

E_n Euler number. See Ref. 1, p. 804

$\binom{n}{m}$ binomial coefficient = $\frac{n!}{m!(n-m)!}$

perfect number. See Ref. 46

$p(n)$ unrestricted partitions of the number n ; i.e., the number of ways in which 1, 2, 3, ... n may be added to give n . Thus,
 $4 = 1 + 1 + 1 + 1 = 1 + 1 + 2 = 1 + 3 = 2 + 2$, so that $p(4) = 5$.
 See Ref. 1, p. 825.

$q(n)$ partitions of n in which the summands are not repeated. E.g.,
 $6 = 1 + 5 = 2 + 4 = 1 + 2 + 3$, so that $q(6) = 4$. See Ref. 1, p. 825.

$r(n)$ unrestricted partitions of n , except that 1 is omitted.
 $r(n) = p(n) - p(n-1)$. E.g., $6 = 4 + 2 = 3 + 3 = 2 + 2 + 2$, so that
 $r(6) = 4$. The generating function is

$$\sum_{n=0}^{\infty} r(n)x^n = \prod_{n=2}^{\infty} (1 - x^n)^{-1}$$

$S_n^{(m)}$ Stirling number of the first kind. $(-1)^{n-m} S_n^{(m)}$ is the number of permutations of n symbols having exactly m cycles. E.g., the permutations acb, bac, and cba of abc each have two cycles, so that $S_3^{(2)} = -3$.
 See Ref. 1, p. 824

$\mathcal{S}_n^{(m)}$ Stirling number of the second kind. This is the number of ways of partitioning n elements into m non-empty subsets. E.g.,

abcd:	a	b	cd
	a	c	bd
	a	d	bc
	b	c	ad
	b	d	ac
	c	d	ab

$\therefore \mathcal{S}_4^{(3)} = 6$ See Ref. 1, p. 824.

Table III

		a_0	a_1	E_0	$-E_2$	$p(1)$	$q(0)$	$q(1)$	$q(2)$	$r(2)$	$r(3)$
1	1										
	1	automorphic(45)		Fibonacci(31)							
2	10	prime	a_2	$p(2)$	$q(3)$	$q(4)$	$r(4)$	$r(5)$	Fibonacci(31)		
	2										
3	11	prime	$2^2 - 1^2$	$1! + 2!$	$p(3)$	$q(5)$	$-s_3^{(2)}$	$g_3^{(2)}$			
	10	Fibonacci(31)									
4	100	2^2	$2 \cdot 2!$	$q(6)$	$r(6)$	$r(7)$					
	11										
5	101	prime	$1^2 + 2^2$	$3^2 - 2^2$	$2 \cdot 2! + 1!$	$2^{2^1} + 1$	a_3	E_4	$p(4)$		
	12	automorphic(45)		Fibonacci(31)							
6	110	$2 \cdot 3$	$1 + 2 + 3$	$1^2 + 1^2 + 2^2$	$3!$	$-s_4^{(1)}$	$-s_4^{(3)}$	$g_4^{(3)}$	$q(8)$		
	20	automorphic(45)		perfect(46)							
7	111	prime	$4^2 - 3^2$	$2^3 - 1^3$	$1 \cdot 3! + 1!$	$p(5)$	$r(8)$	$g_4^{(2)}$			
	21										
8	1 000	2^3	$2^2 + 2^2$	$3^2 - 1^2$	$1 \cdot 3! + 1 \cdot 2!$	$q(9)$	$r(9)$	Fibonacci(31)			
	22										
9	1 001	3^2	$1^2 + 2^2 + 2^2$	$1^3 + 2^3$	$5^2 - 4^2$	$1 \cdot 3! + 1 \cdot 2! + 1!$					
	100										
10	1 010	$2 \cdot 5$	$1 + 2 + 3 + 4$	$1^2 + 3^2$	$1^3 + 1^3 + 2^3$	$\binom{5}{2}$	$1 \cdot 3! + 2 \cdot 2!$	$q(10)$			
	101	$-s_5^{(4)}$	$g_5^{(4)}$								
11	1 011	prime	$1^2 + 1^2 + 3^2$	$6^2 - 5^2$	$1 \cdot 3! + 2 \cdot 2! + 1!$	$p(6)$	$s_4^{(2)}$				
	102										
12	1 100	$2^2 \cdot 3$	$2^2 + 2^2 + 2^2$	$4^2 - 2^2$	$2 \cdot 3!$	$q(11)$	$r(10)$				
	110										
13	1 101	prime	$2^2 + 3^2$	$7^2 - 6^2$	$2 \cdot 3! + 1!$	Fibonacci(31)					
	111										
14	1 110	$2 \cdot 7$	$1^2 + 2^2 + 3^2$	$2 \cdot 3! + 1 \cdot 2!$	$r(11)$						
	112										
15	1 111	$3 \cdot 5$	$1 + 2 + 3 + 4 + 5$	$4^2 - 1^2$	$8^2 - 7^2$	$2^4 - 1^4$	$\binom{6}{2}$				
	120	$2 \cdot 3! + 1 \cdot 2! + 1!$	a_4	$p(7)$	$q(12)$	$-s_6^{(5)}$	$g_5^{(2)}$	$g_6^{(5)}$			
16	10 000	2^4	4^2	$2^3 + 2^3$	$5^2 - 3^2$	$2 \cdot 3! + 2 \cdot 2!$					
	121										
17	10 001	prime	$1^2 + 4^2$	$1^4 + 2^4$	$2^2 + 2^2 + 3^2$	$1^3 + 2^3 + 2^3$	$2^{2^2} + 1$				
	122	$9^2 - 8^2$	$2 \cdot 3! + 2 \cdot 2! + 1!$								

(continued)

Table III (continued)

18	10 010 200	$2 \cdot 3^2$ $3^2 + 3^2$ $1^2 + 1^2 + 4^2$ $1^4 + 1^4 + 2^4$ $3 \cdot 3!$ $q(13)$
19	10 011 201	prime $1^2 + 3^2 + 3^2$ $10^2 - 9^2$ $3^3 - 2^3$ $3 \cdot 3! + 1!$
20	10 100 202	$2^2 \cdot 5$ $2^2 + 4^2$ $6^2 - 4^2$ $\binom{6}{3}$ $3 \cdot 3! + 1 \cdot 2!$
21	10 101 210	$3 \cdot 7$ $\sum_1^6 n$ $1^2 + 2^2 + 4^2$ $5^2 - 2^2$ $11^2 - 10^2$ $\binom{7}{2}$ $3 \cdot 3! + 1 \cdot 2! + 1!$ $r(12)$ $-s_7^{(6)}$ $g_7^{(6)}$ Fibonacci(31)
22	10 110 211	$2 \cdot 11$ $2^2 + 3^2 + 3^2$ $3 \cdot 3! + 2 \cdot 2!$ $p(8)$ $q(14)$
23	10 111 212	prime $12^2 - 11^2$ $7 \cdot 1^3 + 2 \cdot 2^3$ $3 \cdot 3! + 2 \cdot 2! + 1!$
24	11 000 220	$2^3 \cdot 3$ $2^2 + 2^2 + 4^2$ $2^3 + 2^3 + 2^3$ $5^2 - 1^2$ $7^2 - 5^2$ $4!$ $r(13)$ $s_5^{(1)}$
25	11 001 221	5^2 $3^2 + 4^2$ $13^2 - 12^2$ $1 \cdot 4! + 1!$ $g_5^{(3)}$ automorphic(45)
26	11 010 222	$2 \cdot 13$ $1^2 + 5^2$ $1^2 + 3^2 + 4^2$ $3^3 - 1^3$ $1 \cdot 4! + 1 \cdot 2!$
27	11 011 1000	3^3 $3^2 + 3^2 + 3^2$ $1^2 + 1^2 + 5^2$ $6^2 - 3^2$ $14^2 - 13^2$ $1 \cdot 4! + 1 \cdot 2! + 1!$ $q(15)$
28	11 100 1001	$2^2 \cdot 7$ $1 + 2 + 4 + 7 + 14$ $\sum_1^7 n$ $1^3 + 3^3$ $8^2 - 6^2$ $1 \cdot 4! + 2 \cdot 2!$ $-s_8^{(7)}$ $g_8^{(7)}$ perfect(46) $\binom{8}{2}$
29	11 101 1002	prime $2^2 + 5^2$ $2^2 + 3^2 + 4^2$ $1^3 + 1^3 + 3^3$ $15^2 - 14^2$ $1 \cdot 4! + 2 \cdot 2! + 1!$
30	11 110 1010	$2 \cdot 3 \cdot 5$ $1^2 + 2^2 + 5^2$ $1^2 + 2^2 + 3^2 + 4^2$ $1 \cdot 4! + 1 \cdot 3!$ $p(9)$
31	11 111 1011	prime $16^2 - 15^2$ $2^5 - 1^5$ $1 \cdot 4! + 1 \cdot 3! + 1!$
32	100 000 1012	2^5 $4^2 + 4^2$ $2^4 + 2^4$ $6^2 - 2^2$ $9^2 - 7^2$ $1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$ $q(16)$ $1 + 2^2 + 3^3$
33	100 001 1020	$3 \cdot 11$ $1^2 + 4^2 + 4^2$ $2^2 + 2^2 + 5^2$ $1^4 + 2^4 + 2^4$ $1^5 + 2^5$ $7^2 - 4^2$ $17^2 - 16^2$ $1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$
34	100 010 1021	$2 \cdot 17$ $3^2 + 5^2$ $3^2 + 3^2 + 4^2$ $1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$ $r(14)$ Fibonacci(31)

(continued)

Table III (continued)

35	100 011 1022	$5 \cdot 7$ $1^2 + 3^2 + 5^2$ $2^3 + 3^3$ $6^2 - 1^2$ $18^2 - 17^2$ $\binom{7}{3}$ $1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$ $s_5^{(3)}$
36	100 100 1100	$2^2 \cdot 3^2$ $\sum_1^8 n$ 6^2 $2^2 + 4^2 + 4^2$ $1^3 + 2^3 + 3^3$ $10^2 - 8^2$ $\binom{9}{2}$ $1 \cdot 4! + 2 \cdot 3!$ $-s_9^{(8)}$ $\#_9^{(8)}$
37	100 101 1101	prime $4^2 + 5^2$ $1^2 + 6^2$ $19^2 - 18^2$ $4^3 - 3^3$ $1 \cdot 4! + 2 \cdot 3! + 1!$
38	100 110 1102	$2 \cdot 19$ $2^2 + 3^2 + 5^2$ $1^2 + 1^2 + 6^2$ $1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$ $q(17)$
39	100 111 1110	$3 \cdot 13$ $8^2 - 5^2$ $20^2 - 19^2$ $1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
40	101 000 1111	$2^3 \cdot 5$ $2^2 + 6^2$ $7^2 - 3^2$ $11^2 - 9^2$ $1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
41	101 001 1112	prime $4^2 + 5^2$ $3^2 + 4^2 + 4^2$ $1^2 + 2^2 + 6^2$ $21^2 - 20^2$ $1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$ $r(15)$
42	101 010 1120	$2 \cdot 3 \cdot 7$ $1^2 + 4^2 + 5^2$ $1 \cdot 4! + 3 \cdot 3!$ $p(10)$
43	101 011 1121	prime $3^2 + 3^2 + 5^2$ $2^3 + 2^3 + 3^3$ $22^2 - 21^2$ $1 \cdot 4! + 3 \cdot 3! + 1!$
44	101 100 1122	$2^2 \cdot 11$ $2^2 + 2^2 + 6^2$ $12^2 - 10^2$ $1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
45	101 101 1200	$3^2 \cdot 5$ $\sum_1^9 n$ $2^2 + 4^2 + 5^2$ $7^2 - 2^2$ $9^2 - 6^2$ $23^2 - 22^2$ $\binom{10}{2}$ $1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$ $-s_{10}^{(9)}$ $\#_{10}^{(9)}$ $3^2 + 6^2$
46	101 110 1201	$2 \cdot 23$ $1^2 + 3^2 + 6^2$ $1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$ $q(18)$
47	101 111 1202	prime $24^2 - 23^2$ $1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$
48	110 000 1210	$2^4 \cdot 3$ $2 \cdot 4 \cdot 6$ $4^2 + 4^2 + 4^2$ $2^4 + 2^4 + 2^4$ $7^2 - 1^2$ $8^2 - 4^2$ $13^2 - 11^2$ $2 \cdot 4!$
49	110 001 1211	7^2 $2^2 + 3^2 + 6^2$ $25^2 - 24^2$ $2 \cdot 4! + 1!$
50	110 010 1212	$2 \cdot 5^2$ $5^2 + 5^2$ $1^2 + 7^2$ $3^2 + 4^2 + 5^2$ $2 \cdot 4! + 1 \cdot 2!$ $-s_5^{(2)}$
51	110 011 1220	$3 \cdot 17$ $1^2 + 5^2 + 5^2$ $1^2 + 1^2 + 7^2$ $10^2 - 7^2$ $26^2 - 25^2$ $2 \cdot 4! + 1 \cdot 2! + 1!$

(continued)

Table III (continued)

52	110 100 1221	$2^2 \cdot 13$	$4^2 + 6^2$	$14^2 - 12^2$	$2 \cdot 4! + 2 \cdot 2!$	a_5
53	110 101 1222	prime	$2^2 + 7^2$	$1^2 + 4^2 + 6^2$	$27^2 - 26^2$	$2 \cdot 4! + 2 \cdot 2! + 1!$
54	110 110 2000	$2 \cdot 3^3$	$2^2 + 5^2 + 5^2$	$1^2 + 2^2 + 7^2$	$3^2 + 3^2 + 6^2$	$3^3 + 3^3$
		$2 \cdot 4! + 1 \cdot 3!$	$q(19)$			
55	110 111 2001	$5 \cdot 11$	$\sum_{n=1}^{10} n$	$1^2 + 2^2 + 3^2 + 5^2$	$1^3 + 3^3 + 3^3$	$8^2 - 3^2$ $28^2 - 27^2$
		$\binom{11}{2}$	$2 \cdot 4! + 1 \cdot 3! + 1!$	$r(16)$	$-s_{11}^{(10)}$	$g_{11}^{(10)}$ Fibonacci(31)
56	111 000 2002	$2^3 \cdot 7$	$2^2 + 4^2 + 6^2$	$9^2 - 5^2$	$15^2 - 13^2$	$4^3 - 2^3$ $\binom{8}{3}$
		$2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$p(11)$			
57	111 001 2010	$3 \cdot 19$	$4^2 + 4^2 + 5^2$	$2^2 + 2^2 + 7^2$	$11^2 - 8^2$	$29^2 - 28^2$
		$2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$				
58	111 010 2011	$2 \cdot 29$	$3^2 + 7^2$	$2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$		
59	111 011 2012	prime	$3^2 + 5^2 + 5^2$	$1^2 + 3^2 + 7^2$	$30^2 - 29^2$	$2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$
60	111 100 2020	$2^2 \cdot 3 \cdot 5$	$8^2 - 2^2$	$16^2 - 14^2$	$2 \cdot 4! + 2 \cdot 3!$	
61	111 101 2021	prime	$5^2 + 6^2$	$3^2 + 4^2 + 6^2$	$31^2 - 30^2$	$5^3 - 4^3$ $2 \cdot 4! + 2 \cdot 3! + 1!$
		$-E_6$				
62	111 110 2022	$2 \cdot 31$	$1^2 + 5^2 + 6^2$	$2^2 + 3^2 + 7^2$	$2^3 + 3^3 + 3^3$	$2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
63	111 111 2100	$3^2 \cdot 7$	$8^2 - 1^2$	$12^2 - 9^2$	$32^2 - 31^2$	$4^3 - 1^3$ $2^6 - 1^6$
		$2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$		$g_7^{(2)}$		
64	1 000 000 2101	2^6	8^2	4^3	$2^5 + 2^5$	$10^2 - 6^2$ $17^2 - 15^2$ $2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
		$q(20)$				
65	1 000 001 2102	$5 \cdot 13$	$4^2 + 7^2$	$1^2 + 8^2$	$2^2 + 5^2 + 6^2$	$1^3 + 4^3$ $1^6 + 2^6$ $9^2 - 4^2$
		$33^2 - 32^2$	$2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$		$g_6^{(4)}$	
66	1 000 010 2110	$2 \cdot 3 \cdot 11$	$\sum_{n=1}^{11} n$	$4^2 + 5^2 + 5^2$	$1^2 + 4^2 + 7^2$	$1^2 + 1^2 + 8^2$ $1^3 + 1^3 + 4^3$
		$\binom{12}{2}$	$2 \cdot 4! + 3 \cdot 3!$	$r(17)$	$-s_{12}^{(11)}$	$g_{12}^{(11)}$
67	1 000 011 2111	prime	$3^2 + 3^2 + 7^2$	$34^2 - 33^2$	$2 \cdot 4! + 3 \cdot 3! + 1!$	

(continued)

Table III (continued)

68	1 000 100 2112	$2^2 \cdot 17$	$2^2 + 8^2$	$4^2 + 4^2 + 6^2$	$18^2 - 16^2$	$2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
69	1 000 101 2120	$3 \cdot 23$	$2^2 + 4^2 + 7^2$	$1^2 + 2^2 + 8^2$	$13^2 - 10^2$	$35^2 - 34^2$ $2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$
70	1 000 110 2121	$2 \cdot 5 \cdot 7$	$3^2 + 5^2 + 6^2$	$\binom{8}{4}$	$2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$	
71	1 000 111 2122	prime	$36^2 - 35^2$	$2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$		
72	1 001 000 2200	$2^3 \cdot 3^2$	$6^2 + 6^2$	$2^2 + 2^2 + 8^2$	$2^3 + 4^3$	$9^2 - 3^2$ $11^2 - 7^2$ $19^2 - 17^2$ $3 \cdot 4!$
73	1 001 001 2201	prime	$3^2 + 8^2$	$1^2 + 6^2 + 6^2$	$1^3 + 2^3 + 4^3$	$37^2 - 36^2$ $3 \cdot 4! + 1!$
74	1 001 010 2202	$2 \cdot 37$	$5^2 + 7^2$	$3^2 + 4^2 + 7^2$	$1^2 + 3^2 + 8^2$	$3^4 - 2^4$ $3 \cdot 4! + 1 \cdot 2!$
75	1 001 011 2210	$3 \cdot 5^2$	$5^2 + 5^2 + 5^2$	$1^2 + 5^2 + 7^2$	$10^2 - 5^2$	$14^2 - 11^2$ $38^2 - 37^2$ $3 \cdot 4! + 1 \cdot 2! + 1!$
76	1 001 100 2211	$2^2 \cdot 19$	$2^2 + 6^2 + 6^2$	$20^2 - 18^2$	$3 \cdot 4! + 2 \cdot 2!$	$q(21)$
			automorphic(45)			
77	1 001 101 2212	$7 \cdot 11$	$4^2 + 5^2 + 6^2$	$2^2 + 3^2 + 8^2$	$9^2 - 2^2$	$39^2 - 38^2$ $3 \cdot 4! + 2 \cdot 2! + 1!$ $p(12)$
78	1 001 110 2220	$2 \cdot 3 \cdot 13$	$\sum_{n=1}^{12} n$	$2^2 + 5^2 + 7^2$	$\binom{13}{2}$	$3 \cdot 4! + 1 \cdot 3!$ $-s_{13}^{(12)}$ $g_{13}^{(12)}$
79	1 001 111 2221	prime	$40^2 - 39^2$	$3 \cdot 4! + 1 \cdot 3! + 1!$		
80	1 010 000 2222	$2^4 \cdot 5$	$4^2 + 8^2$	$2^3 + 2^3 + 4^3$	$9^2 - 1^2$	$12^2 - 8^2$ $21^2 - 19^2$ $3^4 - 1^4$ $3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$
81	1 010 001 10000	3^4	9^2	$3^2 + 6^2 + 6^2$	$4^2 + 4^2 + 7^2$	$1^2 + 4^2 + 8^2$ $3^3 + 3^3 + 3^3$ $15^2 - 12^2$ $41^2 - 40^2$ $3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$
82	1 010 010 10001	$2 \cdot 41$	$1^2 + 9^2$	$3^2 + 3^2 + 8^2$	$1^4 + 3^4$	$3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$
83	1 010 011 10002	prime	$3^2 + 5^2 + 7^2$	$1^2 + 1^2 + 9^2$	$1^4 + 1^4 + 3^4$	$42^2 - 41^2$ $3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$
84	1 010 100 10010	$2^2 \cdot 3 \cdot 7$	$2^2 + 4^2 + 8^2$	$10^2 - 4^2$	$22^2 - 20^2$	$\binom{9}{3}$ $3 \cdot 4! + 2 \cdot 3!$

(continued)

Table III (continued)

85	1 010 101 10011	5·17 $s_6^{(4)}$	$6^2 + 7^2$	$2^2 + 9^2$	$11^2 - 6^2$	$43^2 - 42^2$	$3 \cdot 4! + 2 \cdot 3! + 1!$
86	1 010 110 10012	2·43	$5^2 + 5^2 + 6^2$	$1^2 + 6^2 + 7^2$	$1^2 + 2^2 + 9^2$		$3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
87	1 010 111 10020	3·29	$16^2 - 13^2$	$44^2 - 43^2$			$3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
88	1 011 000 10021	$2^3 \cdot 11$ r(18)	$4^2 + 6^2 + 6^2$	$13^2 - 9^2$	$23^2 - 21^2$		$3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
89	1 011 001 10022	prime $45^2 - 44^2$	$5^2 + 8^2$	$2^2 + 6^2 + 7^2$	$3^2 + 4^2 + 8^2$	$2^2 + 2^2 + 9^2$	$3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$ q(22) Fibonacci(31)
90	1 011 010 10100	$2 \cdot 3^2 \cdot 5$	$3^2 + 9^2$	$4^2 + 5^2 + 7^2$	$1^2 + 5^2 + 8^2$		$3 \cdot 4! + 3 \cdot 3!$ $g_6^{(3)}$
91	1 011 011 10101	7·13 $6^3 - 5^3$	$\frac{13}{2}n$ $\binom{14}{2}$	$1^2 + 3^2 + 9^2$	$\frac{6}{1}n^2$ $3 \cdot 4! + 3 \cdot 3! + 1!$	$3^3 + 4^3$ $-s_{14}^{(13)}$	$10^2 - 3^2$ $g_{14}^{(13)}$ $46^2 - 45^2$
92	1 011 100 10102	$2^2 \cdot 23$	$1^3 + 3^3 + 4^3$	$24^2 - 22^2$			$3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
93	1 011 101 10110	3·31	$2^2 + 5^2 + 8^2$	$17^2 - 14^2$	$47^2 - 46^2$		$3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$
94	1 011 110 10111	2·47	$3^2 + 6^2 + 7^2$	$2^2 + 3^2 + 9^2$			$3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$
95	1 011 111 10112	5·19	$12^2 - 7^2$	$48^2 - 47^2$			$3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$
96	1 100 000 10120	$2^5 \cdot 3$	$4^2 + 4^2 + 8^2$	$2^5 + 2^5 + 2^5$	$10^2 - 2^2$	$11^2 - 5^2$	$14^2 - 10^2$ $25^2 - 23^2$ 4·4!
97	1 100 001 10121	prime	$4^2 + 9^2$	$5^2 + 6^2 + 6^2$	$2^4 + 3^4$	$49^2 - 48^2$	$4 \cdot 4! + 1!$
98	1 100 010 10122	$2 \cdot 7^2$	$7^2 + 7^2$	$3^2 + 5^2 + 8^2$	$1^2 + 4^2 + 9^2$	$1^4 + 2^4 + 3^4$	$5^3 - 3^3$ $4 \cdot 4! + 1 \cdot 2!$
99	1 100 011 10200	$3^2 \cdot 11$	$5^2 + 5^2 + 7^2$	$1^2 + 7^2 + 7^2$	$3^2 + 3^2 + 9^2$		$2^3 + 3^3 + 4^3$ $10^2 - 1^2$ $18^2 - 15^2$ $50^2 - 49^2$ $4 \cdot 4! + 1 \cdot 2! + 1!$
100	1 100 100 10201	$2^2 \cdot 5^2$	10^2	$6^2 + 8^2$	$1^3 + 2^3 + 3^3 + 4^3$	$26^2 - 24^2$	$4 \cdot 4! + 2 \cdot 2!$
101	1 100 101 10202	prime $51^2 - 50^2$	$1^2 + 10^2$	$4^2 + 6^2 + 7^2$	$1^2 + 6^2 + 8^2$	$2^2 + 4^2 + 9^2$	$4 \cdot 4! + 2 \cdot 2! + 1!$ p(13)

(continued)

Table III (continued)

102	1 100 110 10210	$2 \cdot 3 \cdot 17$	$2^2 + 7^2 + 7^2$	$1^2 + 1^2 + 10^2$	$4 \cdot 4! + 1 \cdot 3!$
103	1 100 111 10211	prime	$52^2 - 51^2$	$4 \cdot 4! + 1 \cdot 3! + 1!$	
104	1 101 000 10212	$2^3 \cdot 13$	$2^2 + 10^2$	$2^2 + 6^2 + 8^2$	$15^2 - 11^2$
			$4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$q(23)$	$27^2 - 25^2$
105	1 101 001 10220	$3 \cdot 5 \cdot 7$	$\sum_{n=1}^4 n$	$1^2 + 2^2 + 10^2$	$4^2 + 5^2 + 8^2$
			$19^2 - 16^2$	$53^2 - 52^2$	$\binom{15}{2}$
			$-8_{15}^{(14)}$	$g_{15}^{(14)}$	$4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$
					$r(19)$
106	1 101 010 10221	$2 \cdot 53$	$5^2 + 9^2$	$3^2 + 4^2 + 9^2$	$4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$
107	1 101 011 10222	prime	$3^2 + 7^2 + 7^2$	$1^2 + 5^2 + 9^2$	$54^2 - 53^2$
					$4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$
108	1 101 100 11000	$2^2 \cdot 3^3$	$6^2 + 6^2 + 6^2$	$2^2 + 2^2 + 10^2$	$12^2 - 6^2$
					$28^2 - 26^2$
					$4 \cdot 4! + 2 \cdot 3!$
109	1 101 101 11001	prime	$3^2 + 10^2$	$3^2 + 6^2 + 8^2$	$55^2 - 54^2$
					$4 \cdot 4! + 2 \cdot 3! + 1!$
110	1 101 110 11002	$2 \cdot 5 \cdot 11$	$5^2 + 6^2 + 7^2$	$2^2 + 5^2 + 9^2$	$1^2 + 3^2 + 10^2$
					$4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
111	1 101 111 11010	$3 \cdot 37$	$20^2 - 17^2$	$56^2 - 55^2$	$4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
112	1 110 000 11011	$2^4 \cdot 7$	$11^2 - 3^2$	$16^2 - 12^2$	$29^2 - 27^2$
					$4 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
113	1 110 001 11012	prime	$7^2 + 8^2$	$4^2 + 4^2 + 9^2$	$2^2 + 3^2 + 10^2$
			$57^2 - 56^2$		$2^4 + 2^4 + 3^4$
					$4 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
114	1 110 010 11020	$2 \cdot 3 \cdot 19$	$4^2 + 7^2 + 7^2$	$1^2 + 7^2 + 8^2$	$5^2 + 5^2 + 8^2$
					$4 \cdot 4! + 3 \cdot 3!$
115	1 110 011 11021	$5 \cdot 23$	$3^2 + 5^2 + 9^2$	$14^2 - 9^2$	$58^2 - 57^2$
					$4 \cdot 4! + 3 \cdot 3! + 1!$
116	1 110 100 11022	$2^2 \cdot 29$	$4^2 + 10^2$	$4^2 + 6^2 + 8^2$	$30^2 - 28^2$
					$4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
117	1 110 101 11100	$3^2 \cdot 13$	$6^2 + 9^2$	$2^2 + 7^2 + 8^2$	$1^2 + 4^2 + 10^2$
			$59^2 - 58^2$	$5^3 - 2^3$	$11^2 - 2^2$
					$21^2 - 18^2$
					$4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$

(continued)

Table III (continued)

118	1 110 110 11101	2·59	$1^2 + 6^2 + 9^2$	$3^2 + 3^2 + 10^2$	$3^3 + 3^3 + 4^3$	$4·4! + 3·3! + 2·2!$			
119	1 110 111 11102	7·17	$12^2 - 5^2$	$60^2 - 59^2$	$4·4! + 3·3! + 2·2! + 1!$				
120	1 111 000 11110	$2^3·3·5$	$\sum_1^{15} n$	$2^2 + 4^2 + 10^2$	$11^2 - 1^2$	$13^2 - 7^2$	$17^2 - 13^2$		
		$31^2 - 29^2$	$\binom{16}{2}$	$\binom{10}{3}$	5!	$-s_6^{(1)}$	$-s_{16}^{(15)}$	$s_{16}^{(15)}$	
121	1 111 001 11111	11^2	$6^2 + 6^2 + 7^2$	$2^2 + 6^2 + 9^2$	$61^2 - 60^2$	$1·5! + 1!$			
122	1 111 010 11112	2·61	$1^2 + 11^2$	$3^2 + 7^2 + 8^2$	$4^2 + 5^2 + 9^2$	$1·5! + 1·2!$	$q(24)$		
123	1 111 011 11120	3·41	$5^2 + 7^2 + 7^2$	$1^2 + 1^2 + 11^2$	$22^2 - 19^2$	$62^2 - 61^2$			
						$1·5! + 1·2! + 1!$			
124	1 111 100 11121	$2^2·31$	$5^3 - 1^3$	$32^2 - 30^2$	$1·5! + 2·2!$				
125	1 111 101 11122	5^3	$5^2 + 10^2$	$2^2 + 11^2$	$5^2 + 6^2 + 8^2$	$3^2 + 4^2 + 10^2$	$15^2 - 10^2$		
						$1·5! + 2·2! + 1!$			
126	1 111 110 11200	$2·3^2·7$	$3^2 + 6^2 + 9^2$	$1^2 + 5^2 + 10^2$	$1^2 + 2^2 + 11^2$	$1^3 + 5^3$	$\binom{9}{4}$		
						$1·5! + 1·3!$			
127	1 111 111 11201	prime	$1^3 + 1^3 + 5^3$	$64^2 - 63^2$	$7^3 - 6^3$	$1·5! + 1·3! + 1!$	$s_8^{(2)}$		
128	10 000 000 11202	2^7	$8^2 + 8^2$	$4^3 + 4^3$	$2^6 + 2^6$	$12^2 - 4^2$	$18^2 - 14^2$	$33^2 - 31^2$	
						$1·5! + 1·3! + 1·2!$			
129	10 000 001 11210	3·43	$1^7 + 2^7$	$4^2 + 7^2 + 8^2$	$1^2 + 8^2 + 8^2$	$2^2 + 5^2 + 10^2$			
						$2^2 + 2^2 + 11^2$	$1^3 + 4^3 + 4^3$	$23^2 - 20^2$	$65^2 - 64^2$
						$1·5! + 1·3! + 1·2! + 1!$			
130	10 000 010 11211	2·5·13	$7^2 + 9^2$	$3^2 + 11^2$	$1^7 + 1^7 + 2^7$	$1·5! + 1·3! + 2·2!$			
131	10 000 011 11212	prime	$5^2 + 5^2 + 9^2$	$1^2 + 7^2 + 9^2$	$1^2 + 3^2 + 11^2$	$66^2 - 65^2$			
						$1·5! + 1·3! + 2·2! + 1!$			
132	10 000 100 11220	$2^2·3·11$	$2^2 + 8^2 + 8^2$	$4^2 + 4^2 + 10^2$	$14^2 - 8^2$	$34^2 - 32^2$			
						$1·5! + 2·3!$			
133	10 000 101 11221	7·19	$4^2 + 6^2 + 9^2$	$2^3 + 5^3$	$13^2 - 6^2$	$67^2 - 66^2$	$1·5! + 2·3! + 1!$		

(continued)

Table III (continued)

134	10 000 110 11222	$2 \cdot 67$ $6^2 + 7^2 + 7^2$ $2^2 + 7^2 + 9^2$ $3^2 + 5^2 + 10^2$ $2^2 + 3^2 + 11^2$ $1^3 + 2^3 + 5^3$ $1 \cdot 5! + 2 \cdot 3! + 1 \cdot 2!$
135	10 000 111 12000	$3^3 \cdot 5$ $12^2 - 3^2$ $16^2 - 11^2$ $24^2 - 21^2$ $68^2 - 67^2$ $1 \cdot 5! + 2 \cdot 3! + 1 \cdot 2! + 1!$ $p(14)$
136	10 001 000 12001	$2^3 \cdot 17$ $\sum_{i=1}^{16} n$ $6^2 + 10^2$ $6^2 + 6^2 + 8^2$ $2^3 + 4^3 + 4^3$ $19^2 - 15^2$ $35^2 - 33^2$ $\binom{17}{2}$ $1 \cdot 5! + 2 \cdot 3! + 2 \cdot 2!$ $-s_{17}^{(16)}$ $\phi_{17}^{(16)}$
137	10 001 001 12002	prime $4^2 + 11^2$ $3^2 + 8^2 + 8^2$ $1^2 + 6^2 + 10^2$ $69^2 - 68^2$ $1 \cdot 5! + 2 \cdot 3! + 2 \cdot 2! + 1!$ $r(20)$
138	10 001 010 12010	$2 \cdot 3 \cdot 23$ $5^2 + 7^2 + 8^2$ $1^2 + 4^2 + 11^2$ $1 \cdot 5! + 3 \cdot 3!$
139	10 001 011 12011	prime $3^2 + 7^2 + 9^2$ $3^2 + 3^2 + 11^2$ $70^2 - 69^2$ $1 \cdot 5! + 3 \cdot 3! + 1!$
140	10 001 100 12012	$2^2 \cdot 5 \cdot 7$ $\sum_{i=1}^7 n^2$ $2^2 + 6^2 + 10^2$ $12^2 - 2^2$ $36^2 - 34^2$ $\phi_7^{(5)}$ $1 \cdot 5! + 3 \cdot 3! + 1 \cdot 2!$
141	10 001 101 12020	$3 \cdot 47$ $4^2 + 5^2 + 10^2$ $2^2 + 4^2 + 11^2$ $2^3 + 2^3 + 5^3$ $25^2 - 22^2$ $71^2 - 70^2$ $1 \cdot 5! + 3 \cdot 3! + 1 \cdot 2! + 1!$
142	10 001 110 12021	$2 \cdot 71$ $5^2 + 6^2 + 9^2$ $1 \cdot 5! + 3 \cdot 3! + 2 \cdot 2!$ $q(25)$
143	10 001 111 12022	$11 \cdot 13$ $12^2 - 1^2$ $72^2 - 71^2$ $1 \cdot 5! + 3 \cdot 3! + 2 \cdot 2! + 1!$
144	10 010 000 12100	$2^4 \cdot 3^2$ 12^2 $4^2 + 8^2 + 8^2$ $13^2 - 5^2$ $15^2 - 9^2$ $20^2 - 16^2$ $37^2 - 35^2$ $1 \cdot 5! + 1 \cdot 4!$ $\text{Fibonacci}(31)$
145	10 010 001 12101	$5 \cdot 29$ $8^2 + 9^2$ $1^2 + 12^2$ $3^2 + 6^2 + 10^2$ $17^2 - 12^2$ $73^2 - 72^2$ $1 \cdot 5! + 1 \cdot 4! + 1!$
146	10 010 010 12102	$2 \cdot 73$ $5^2 + 11^2$ $4^2 + 7^2 + 9^2$ $1^2 + 8^2 + 9^2$ $3^2 + 4^2 + 11^2$ $1^2 + 1^2 + 12^2$ $1 \cdot 5! + 1 \cdot 4! + 1 \cdot 2!$
147	10 010 011 12110	$3 \cdot 7^2$ $7^2 + 7^2 + 7^2$ $1^2 + 5^2 + 11^2$ $14^2 - 7^2$ $26^2 - 23^2$ $74^2 - 73^2$ $1 \cdot 5! + 1 \cdot 4! + 1 \cdot 2! + 1!$
148	10 010 100 12111	$2^2 \cdot 37$ $2^2 + 12^2$ $38^2 - 36^2$ $1 \cdot 5! + 1 \cdot 4! + 2 \cdot 2!$
149	10 010 101 12112	prime $7^2 + 10^2$ $6^2 + 7^2 + 8^2$ $2^2 + 8^2 + 9^2$ $1^2 + 2^2 + 12^2$ $75^2 - 74^2$ $1 \cdot 5! + 1 \cdot 4! + 2 \cdot 2! + 1!$

(continued)

Table III (continued)

150	10 010 110 12120	$2 \cdot 3 \cdot 5^2$ $1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3!$	$5^2 + 5^2 + 10^2$	$1^2 + 7^2 + 10^2$	$2^2 + 5^2 + 11^2$	
151	10 010 111 12121	prime	$76^2 - 75^2$	$1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1!$		
152	10 011 000 12122	$2^3 \cdot 19$ $6^3 - 4^3$	$4^2 + 6^2 + 10^2$ $1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$2^2 + 2^2 + 12^2$	$3^3 + 5^3$ $21^2 - 17^2$ $39^2 - 37^2$	
153	10 011 001 12200	$3^2 \cdot 17$ $4^2 + 4^2 + 11^2$ $1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$	$\sum_{i=1}^{17} n$ $3^2 + 12^2$ $1^3 + 3^3 + 5^3$	$5^2 + 8^2 + 8^2$ $13^2 - 4^2$ $-8_{18}^{(17)}$	$6^2 + 6^2 + 9^2$ $27^2 - 24^2$ $8_{18}^{(17)}$	$2^2 + 7^2 + 10^2$ $77^2 - 76^2$ $\binom{18}{2}$
154	10 011 010 12201	$2 \cdot 7 \cdot 11$	$3^2 + 8^2 + 9^2$	$1^2 + 3^2 + 12^2$	$1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$	
155	10 011 011 12202	$5 \cdot 31$ $78^2 - 77^2$	$5^2 + 7^2 + 9^2$ $1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$	$3^2 + 5^2 + 11^2$	$3^3 + 4^3 + 4^3$ $18^2 - 13^2$	
156	10 011 100 12210	$2^2 \cdot 3 \cdot 13$	$16^2 - 10^2$	$40^2 - 38^2$	$1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3!$	
157	10 011 101 12211	prime	$6^2 + 11^2$	$2^2 + 3^2 + 12^2$	$79^2 - 78^2$ $1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1!$	
158	10 011 110 12212	$2 \cdot 79$	$3^2 + 7^2 + 10^2$	$1^2 + 6^2 + 11^2$	$1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2!$	
159	10 011 111 12220	$3 \cdot 53$	$28^2 - 25^2$	$80^2 - 79^2$	$1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$	
160	10 100 000 12221	$2^5 \cdot 5$ $41^2 - 39^2$	$4^2 + 12^2$ $1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$	$2^3 + 3^3 + 5^3$	$13^2 - 3^2$ $14^2 - 6^2$ $22^2 - 18^2$	
161	10 100 001 12222	$7 \cdot 23$ $15^2 - 8^2$	$4^2 + 8^2 + 9^2$ $81^2 - 80^2$	$5^2 + 6^2 + 10^2$ $1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$	$2^2 + 6^2 + 11^2$ $1^2 + 4^2 + 12^2$	
162	10 100 010 20000	$2 \cdot 3^4$ $1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3!$	$9^2 + 9^2$	$3^4 + 3^4$	$7^2 + 7^2 + 8^2$ $4^2 + 5^2 + 11^2$ $3^2 + 3^2 + 12^2$	
163	10 100 011 20001	prime	$1^2 + 9^2 + 9^2$	$1^4 + 3^4 + 3^4$	$82^2 - 81^2$ $1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1!$	
164	10 100 100 20002	$2^2 \cdot 41$ $1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$	$8^2 + 10^2$	$6^2 + 8^2 + 8^2$	$2^2 + 4^2 + 12^2$ $42^2 - 40^2$	
165	10 100 101 20010	$3 \cdot 5 \cdot 11$ $29^2 - 26^2$ $r(21)$	$4^2 + 7^2 + 10^2$ $83^2 - 82^2$	$1^2 + 8^2 + 10^2$ $\binom{11}{3}$	$13^2 - 2^2$ $19^2 - 14^2$ $1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$ $q(26)$	

(continued)

Table III (continued)

166	10 100 110 20011	$2 \cdot 83$	$6^2 + 7^2 + 9^2$	$2^2 + 9^2 + 9^2$	$3^2 + 6^2 + 11^2$		
			$1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$				
167	10 100 111 20012	prime	$84^2 - 83^2$	$1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$			
168	10 101 000 20020	$2^3 \cdot 3 \cdot 7$	$2^2 + 8^2 + 10^2$	$13^2 - 1^2$	$17^2 - 11^2$	$23^2 - 19^2$	$43^2 - 41^2$
			$1 \cdot 5! + 2 \cdot 4!$				
169	10 101 001 20021	13^2	$5^2 + 12^2$	$3^2 + 4^2 + 12^2$	$85^2 - 84^2$	$8^3 - 7^3$	
			$1 \cdot 5! + 2 \cdot 4! + 1!$				
170	10 101 010 20022	$2 \cdot 5 \cdot 17$	$7^2 + 11^2$	$1^2 + 13^2$	$5^2 + 8^2 + 9^2$	$1^2 + 5^2 + 12^2$	
			$1 \cdot 5! + 2 \cdot 4! + 1 \cdot 2!$				
171	10 101 011 20100	$3^2 \cdot 19$	$\sum_{n=1}^{18} n$	$3^2 + 9^2 + 9^2$	$5^2 + 5^2 + 11^2$	$1^2 + 7^2 + 11^2$	
			$1^2 + 1^2 + 13^2$	$14^2 - 5^2$	$30^2 - 27^2$	$86^2 - 85^2$	$\binom{19}{2} - s_{19}^{(18)}$
		$s_{19}^{(18)}$	$1 \cdot 5! + 2 \cdot 4! + 1 \cdot 2! + 1!$				
172	10 101 100 20101	$2^2 \cdot 43$	$6^2 + 6^2 + 10^2$	$44^2 - 42^2$	$1 \cdot 5! + 2 \cdot 4! + 2 \cdot 2!$		
173	10 101 101 20102	prime	$2^2 + 13^2$	$3^2 + 8^2 + 10^2$	$4^2 + 6^2 + 11^2$	$2^2 + 5^2 + 12^2$	
			$87^2 - 86^2$	$1 \cdot 5! + 2 \cdot 4! + 2 \cdot 2! + 1!$			
174	10 101 110 20110	$2 \cdot 3 \cdot 29$	$5^2 + 7^2 + 10^2$	$2^2 + 7^2 + 11^2$	$1^2 + 2^2 + 13^2$	$1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3!$	
175	10 101 111 20111	$5^2 \cdot 7$	$16^2 - 9^2$	$20^2 - 15^2$	$88^2 - 87^2$	$4^4 - 3^4$	
			$1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1!$	$s_7^{(5)}$			
176	10 110 000 20112	$2^4 \cdot 11$	$4^2 + 4^2 + 12^2$	$15^2 - 7^2$	$24^2 - 20^2$	$45^2 - 43^2$	
			$1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$p(15)$			
177	10 110 001 20120	$3 \cdot 59$	$7^2 + 8^2 + 8^2$	$2^2 + 2^2 + 13^2$	$31^2 - 28^2$	$89^2 - 88^2$	
			$1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$				
178	10 110 010 20121	$2 \cdot 89$	$3^2 + 13^2$	$4^2 + 9^2 + 9^2$	$3^2 + 5^2 + 12^2$	$2^4 + 3^4 + 3^4$	
			$1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$				
179	10 110 011 20122	prime	$7^2 + 7^2 + 9^2$	$3^2 + 7^2 + 11^2$	$1^2 + 3^2 + 13^2$	$3^3 + 3^3 + 5^3$	
			$90^2 - 89^2$	$1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$			
180	10 110 100 20200	$2^2 \cdot 3^2 \cdot 5$	$6^2 + 12^2$	$4^2 + 8^2 + 10^2$	$14^2 - 4^2$	$18^2 - 12^2$	$46^2 - 44^2$
			$1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3!$				
181	10 110 101 20201	prime	$9^2 + 10^2$	$6^2 + 8^2 + 9^2$	$1^2 + 6^2 + 12^2$	$91^2 - 90^2$	
			$1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1!$				

(continued)

Table III (continued)

182	10 110 110 20202	$2 \cdot 7 \cdot 13$	$1^2 + 9^2 + 10^2$	$5^2 + 6^2 + 11^2$	$2^2 + 3^2 + 13^2$	$1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
183	10 110 111 20210	$3 \cdot 61$	$32^2 - 29^2$	$92^2 - 91^2$	$1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$	
184	10 111 000 20211	$2^3 \cdot 23$	$2^2 + 6^2 + 12^2$	$25^2 - 21^2$	$47^2 - 45^2$	$1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
185	10 111 001 20212	$5 \cdot 37$	$8^2 + 11^2$	$4^2 + 13^2$	$6^2 + 7^2 + 10^2$	$2^2 + 9^2 + 10^2$ $4^2 + 5^2 + 12^2$ $21^2 - 16^2$ $93^2 - 92^2$ $1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
186	10 111 010 20220	$2 \cdot 3 \cdot 31$	$4^2 + 7^2 + 11^2$	$1^2 + 8^2 + 11^2$	$1^2 + 4^2 + 13^2$	$1 \cdot 5! + 2 \cdot 4! + 3 \cdot 3!$
187	10 111 011 20221	$11 \cdot 17$	$5^2 + 9^2 + 9^2$	$3^2 + 3^2 + 13^2$	$14^2 - 3^2$	$94^2 - 93^2$ $1 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1!$
188	10 111 100 20222	$2^2 \cdot 47$	$48^2 - 46^2$	$1 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$		
189	10 111 101 21000	$3^3 \cdot 7$	$5^2 + 8^2 + 10^2$	$2^2 + 8^2 + 11^2$	$3^2 + 6^2 + 12^2$	$2^2 + 4^2 + 13^2$ $4^3 + 5^3$ $15^2 - 6^2$ $17^2 - 10^2$ $33^2 - 30^2$ $95^2 - 94^2$ $6^3 - 3^3$ $1 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$
190	10 111 110 21001	$2 \cdot 5 \cdot 19$	$\sum_{1}^{19} n$	$3^2 + 9^2 + 10^2$	$1^3 + 4^3 + 5^3$	$\binom{20}{2}$ $1 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$ $-s_{20}^{(19)}$ $\#_{20}^{(19)}$
191	10 111 111 21002	prime	$96^2 - 95^2$	$1 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$		
192	11 000 000 21010	$2^6 \cdot 3$	$8^2 + 8^2 + 8^2$	$4^3 + 4^3 + 4^3$	$2^6 + 2^6 + 2^6$	$14^2 - 2^2$ $16^2 - 8^2$ $19^2 - 13^2$ $26^2 - 22^2$ $49^2 - 47^2$ $1 \cdot 5! + 3 \cdot 4!$ $q(27)$
193	11 000 001 21011	prime	$7^2 + 12^2$	$6^2 + 6^2 + 11^2$	$97^2 - 96^2$	$1 \cdot 5! + 3 \cdot 4! + 1!$
194	11 000 010 21012	$2 \cdot 97$	$5^2 + 13^2$	$7^2 + 8^2 + 9^2$	$3^2 + 8^2 + 11^2$	$5^2 + 5^2 + 12^2$ $1^2 + 7^2 + 12^2$ $3^2 + 4^2 + 13^2$ $1 \cdot 5! + 3 \cdot 4! + 1 \cdot 2!$
195	11 000 011 21020	$3 \cdot 5 \cdot 13$	$5^2 + 7^2 + 11^2$	$1^2 + 5^2 + 13^2$	$14^2 - 1^2$	$22^2 - 17^2$ $34^2 - 31^2$ $98^2 - 97^2$ $1 \cdot 5! + 3 \cdot 4! + 1 \cdot 2! + 1!$
196	11 000 100 21021	$2^2 \cdot 7^2$	14^2	$4^2 + 6^2 + 12^2$	$50^2 - 48^2$	$1 \cdot 5! + 3 \cdot 4! + 2 \cdot 2!$
197	11 000 101 21022	prime	$1^2 + 14^2$	$4^2 + 9^2 + 10^2$	$2^2 + 7^2 + 12^2$	$2^3 + 4^3 + 5^3$ $99^2 - 98^2$ $1 \cdot 5! + 3 \cdot 4! + 2 \cdot 2! + 1!$

(continued)

Table III (continued)

198	11 000 110 21100	$2 \cdot 3^2 \cdot 11$ $6^2 + 9^2 + 9^2$ $7^2 + 7^2 + 10^2$ $2^2 + 5^2 + 13^2$ $1^2 + 1^2 + 14^2$ $1 \cdot 5! + 3 \cdot 4! + 1 \cdot 3!$
199	11 000 111 21101	prime $100^2 - 99^2$ $1 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1!$
200	11 001 000 21102	$2^3 \cdot 5^2$ $10^2 + 10^2$ $2^2 + 14^2$ $6^2 + 8^2 + 10^2$ $15^2 - 5^2$ $27^2 - 23^2$ $51^2 - 49^2$ $1 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$
201	11 001 001 21110	$3 \cdot 67$ $1^2 + 10^2 + 10^2$ $4^2 + 8^2 + 11^2$ $4^2 + 4^2 + 13^2$ $1^2 + 2^2 + 14^2$ $35^2 - 32^2$ $101^2 - 100^2$ $1 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$
202	11 001 010 21111	$2 \cdot 101$ $9^2 + 11^2$ $3^2 + 7^2 + 12^2$ $1 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$
203	11 001 011 21112	$7 \cdot 29$ $1^2 + 9^2 + 11^2$ $3^2 + 5^2 + 13^2$ $18^2 - 11^2$ $102^2 - 101^2$ $1 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$ a_6
204	11 001 100 21120	$2^2 \cdot 3 \cdot 17$ $2^2 + 10^2 + 10^2$ $2^2 + 2^2 + 14^2$ $\frac{8}{1}n^2$ $20^2 - 14^2$ $52^2 - 50^2$ $1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3!$
205	11 001 101 21121	$5 \cdot 41$ $6^2 + 13^2$ $3^2 + 14^2$ $5^2 + 6^2 + 12^2$ $23^2 - 18^2$ $103^2 - 102^2$ $1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1!$
206	11 001 110 21122	$2 \cdot 103$ $5^2 + 9^2 + 10^2$ $6^2 + 7^2 + 11^2$ $2^2 + 9^2 + 11^2$ $1^2 + 6^2 + 13^2$ $1^2 + 3^2 + 14^2$ $1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
207	11 001 111 21200	$3^2 \cdot 23$ $16^2 - 7^2$ $36^2 - 33^2$ $104^2 - 103^2$ $1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
208	11 010 000 21201	$2^4 \cdot 13$ $8^2 + 12^2$ $17^2 - 9^2$ $28^2 - 24^2$ $53^2 - 51^2$ $6^3 - 2^3$ $1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
209	11 010 001 21202	$11 \cdot 19$ $8^2 + 8^2 + 9^2$ $3^2 + 10^2 + 10^2$ $4^2 + 7^2 + 12^2$ $1^2 + 8^2 + 12^2$ $2^2 + 6^2 + 13^2$ $2^2 + 3^2 + 14^2$ $15^2 - 4^2$ $105^2 - 104^2$ $1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
210	11 010 010 21210	$2 \cdot 3 \cdot 5 \cdot 7$ $\sum_1^{20} n$ $5^2 + 8^2 + 11^2$ $4^2 + 5^2 + 13^2$ $\binom{21}{2}$ $\binom{10}{4}$ $1 \cdot 5! + 3 \cdot 4! + 3 \cdot 3!$ $r(22)$ $-s_{21}^{(20)}$ $\#_{21}^{(20)}$
211	11 010 011 21211	prime $7^2 + 9^2 + 9^2$ $3^2 + 9^2 + 11^2$ $106^2 - 105^2$ $3^5 - 2^5$ $1 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1!$
212	11 010 100 21212	$2^2 \cdot 53$ $4^2 + 14^2$ $2^2 + 8^2 + 12^2$ $54^2 - 52^2$ $1 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
213	11 010 101 21220	$3 \cdot 71$ $7^2 + 8^2 + 10^2$ $1^2 + 4^2 + 14^2$ $37^2 - 34^2$ $107^2 - 106^2$ $1 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$

(continued)

Table III (continued)

214	11 010 110 21221	2·107	$3^2 + 6^2 + 13^2$	$3^2 + 3^2 + 14^2$	$1·5! + 3·4! + 3·3! + 2·2!$
215	11 010 111 21222	5·43	$24^2 - 19^2$	$108^2 - 107^2$	$6^3 - 1^3$ $1·5! + 3·4! + 3·3! + 2·2! + 1!$
216	11 011 000 22000	$2^3·3^3$	6^3	$4^2 + 10^2 + 10^2$	$6^2 + 6^2 + 12^2$ $2^2 + 4^2 + 14^2$ $3^3 + 4^3 + 5^3$ $15^2 - 3^2$ $21^2 - 15^2$ $29^2 - 25^2$ $55^2 - 53^2$ $1·5! + 4·4!$
217	11 011 001 22001	7·31	$6^2 + 9^2 + 10^2$	$3^2 + 8^2 + 12^2$	$1^3 + 6^3$ $19^2 - 12^2$ $109^2 - 108^2$ $9^3 - 8^3$ $1·5! + 4·4! + 1!$
218	11 011 010 22002	2·109	$7^2 + 13^2$	$4^2 + 9^2 + 11^2$	$5^2 + 7^2 + 12^2$ $1^3 + 1^3 + 6^3$ $7^3 - 5^3$ $1·5! + 4·4! + 1·2!$
219	11 011 011 22010	3·73	$7^2 + 7^2 + 11^2$	$5^2 + 5^2 + 13^2$	$1^2 + 7^2 + 13^2$ $38^2 - 35^2$ $110^2 - 109^2$ $1·5! + 4·4! + 1·2! + 1!$
220	11 011 100 22011	$2^2·5·11$	$16^2 - 6^2$	$56^2 - 54^2$	$\binom{12}{3}$ $1·5! + 4·4! + 2·2!$
221	11 011 101 22012	13·17	$10^2 + 11^2$	$5^2 + 14^2$	$6^2 + 8^2 + 11^2$ $4^2 + 6^2 + 13^2$ $3^2 + 4^2 + 14^2$ $15^2 - 2^2$ $111^2 - 110^2$ $1·5! + 4·4! + 2·2! + 1!$
222	11 011 110 22020	2·3·37	$1^2 + 10^2 + 11^2$	$2^2 + 7^2 + 13^2$	$1^2 + 5^2 + 14^2$ $q(28)$ $1·5! + 4·4! + 1·3!$
223	11 011 111 22021	prime	$112^2 - 111^2$	$1·5! + 4·4! + 1·3! + 1!$	
224	11 100 000 22022	$2^5·7$	$2^3 + 6^3$	$4^2 + 8^2 + 12^2$	$15^2 - 1^2$ $18^2 - 10^2$ $30^2 - 26^2$ $57^2 - 55^2$ $1·5! + 4·4! + 1·3! + 1·2!$
225	11 100 001 22100	$3^2·5^2$	15^2	$9^2 + 12^2$	$5^2 + 10^2 + 10^2$ $2^2 + 10^2 + 11^2$ $2^2 + 5^2 + 14^2$ $\sum_{n=1}^5 n^3$ $1^3 + 2^3 + 6^3$ $17^2 - 8^2$ $25^2 - 20^2$ $39^2 - 36^2$ $113^2 - 112^2$ $1·5! + 4·4! + 1·3! + 1·2! + 1!$ $-S_6^{(3)}$
226	11 100 010 22101	2·113	$1^2 + 15^2$	$8^2 + 9^2 + 9^2$	$1^2 + 9^2 + 12^2$ $1·5! + 4·4! + 1·3! + 2·2!$
227	11 100 011 22102	prime	$5^2 + 9^2 + 11^2$	$3^2 + 7^2 + 13^2$	$1^2 + 1^2 + 15^2$ $114^2 - 113^2$ $1·5! + 4·4! + 1·3! + 2·2! + 1!$
228	11 100 100 22110	$2^2·3·19$	$8^2 + 8^2 + 10^2$	$4^2 + 4^2 + 14^2$	$22^2 - 16^2$ $58^2 - 56^2$ $1·5! + 4·4! + 2·3!$
229	11 100 101 22111	prime	$2^2 + 15^2$	$6^2 + 7^2 + 12^2$	$2^2 + 9^2 + 12^2$ $115^2 - 114^2$ $1·5! + 4·4! + 2·3! + 1!$

(continued)

Table III (continued)

230	11 100 110 22112	$2 \cdot 5 \cdot 23$ $1^2 + 2^2 + 15^2$	$7^2 + 9^2 + 10^2$ $1 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$	$3^2 + 10^2 + 11^2$	$5^2 + 6^2 + 13^2$	$3^2 + 5^2 + 14^2$
231	11 100 111 22120	$3 \cdot 7 \cdot 11$ $p(16)$	$\sum_{n=1}^{21} n$ $-s_{22}^{(21)}$	$16^2 - 5^2$ $g_{22}^{(21)}$	$20^2 - 13^2$ $1 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$	$40^2 - 37^2$ $116^2 - 115^2$ $\binom{22}{2}$
232	11 101 000 22121	$2^3 \cdot 29$	$6^2 + 14^2$	$2^3 + 2^3 + 6^3$	$31^2 - 27^2$	$59^2 - 57^2$
233	11 101 001 22122	prime	$8^2 + 13^2$	$5^2 + 8^2 + 12^2$	$1^2 + 6^2 + 14^2$	$2^2 + 2^2 + 15^2$ Fibonacci(31)
234	11 101 010 22200	$2 \cdot 3^2 \cdot 13$	$3^2 + 15^2$	$7^2 + 8^2 + 11^2$	$3^2 + 9^2 + 12^2$	$4^2 + 7^2 + 13^2$
235	11 101 011 22201	$5 \cdot 47$	$1^2 + 3^2 + 15^2$	$26^2 - 21^2$	$118^2 - 117^2$	$1 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1!$
236	11 101 100 22202	$2^2 \cdot 59$	$6^2 + 10^2 + 10^2$	$2^2 + 6^2 + 14^2$	$60^2 - 58^2$	$1 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
237	11 101 101 22210	$3 \cdot 79$	$4^2 + 10^2 + 11^2$	$2^2 + 8^2 + 13^2$	$4^2 + 5^2 + 14^2$	$41^2 - 38^2$
238	11 101 110 22211	$2 \cdot 7 \cdot 17$	$6^2 + 9^2 + 11^2$	$2^2 + 3^2 + 15^2$	$1 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$	
239	11 101 111 22212	prime	$1^3 + 4 \cdot 2^3 + 3 \cdot 3^3 + 5^3$	$120^2 - 119^2$	$1 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$	
240	11 110 000 22220	$2^4 \cdot 3 \cdot 5$	$16^2 - 4^2$ $61^2 - 59^2$	$17^2 - 7^2$ $4^4 - 2^4$	$19^2 - 11^2$ $2 \cdot 5!$	$23^2 - 17^2$ $32^2 - 28^2$
241	11 110 001 22221	prime	$4^2 + 15^2$	$4^2 + 9^2 + 12^2$	$6^2 + 6^2 + 13^2$	$3^2 + 6^2 + 14^2$
242	11 110 010 22222	$2 \cdot 11^2$	$11^2 + 11^2$	$7^2 + 7^2 + 12^2$	$3^2 + 8^2 + 13^2$	$1^2 + 4^2 + 15^2$
243	11 110 011 100000	3^5	$9^2 + 9^2 + 9^2$ $3^3 + 6^3$	$1^2 + 11^2 + 11^2$ $3^4 + 3^4 + 3^4$	$5^2 + 7^2 + 13^2$ $18^2 - 9^2$	$3^2 + 3^2 + 15^2$ $42^2 - 39^2$ $122^2 - 121^2$
244	11 110 100 100001	$2^2 \cdot 61$	$10^2 + 12^2$	$6^2 + 8^2 + 12^2$	$1^3 + 3^3 + 6^3$	$1^5 + 3^5$ $62^2 - 60^2$
245	11 110 101 100002	$5 \cdot 7^2$	$7^2 + 14^2$	$8^2 + 9^2 + 10^2$	$1^2 + 10^2 + 12^2$	$2^2 + 4^2 + 15^2$

(continued)

Table III (continued)

246	11 110 110 100010	$2 \cdot 3 \cdot 41$	$5^2 + 10^2 + 11^2$	$2^2 + 11^2 + 11^2$	$5^2 + 5^2 + 14^2$	$1^2 + 7^2 + 14^2$
		$2 \cdot 5! + 1 \cdot 3!$				
247	11 110 111 100011	$13 \cdot 19$	$16^2 - 3^2$	$124^2 - 123^2$	$2 \cdot 5! + 1 \cdot 3! + 1!$	
248	11 111 000 100012	$2^3 \cdot 31$	$2^2 + 10^2 + 12^2$	$4^2 + 6^2 + 14^2$	$33^2 - 29^2$	$63^2 - 61^2$
		$2 \cdot 5! + 1 \cdot 3! + 1 \cdot 2!$				
249	11 111 001 100020	$3 \cdot 83$	$7^2 + 10^2 + 10^2$	$8^2 + 8^2 + 11^2$	$4^2 + 8^2 + 13^2$	$2^2 + 7^2 + 14^2$
		$43^2 - 40^2$	$125^2 - 124^2$	$2 \cdot 5! + 1 \cdot 3! + 1 \cdot 2! + 1!$		
250	11 111 010 100021	$2 \cdot 5^3$	$9^2 + 13^2$	$5^2 + 15^2$	$5^2 + 9^2 + 12^2$	$3^2 + 4^2 + 15^2$
		$2 \cdot 5! + 1 \cdot 3! + 2 \cdot 2!$				$5^3 + 5^3$
251	11 111 011 100022	prime	$7^2 + 9^2 + 11^2$	$3^2 + 11^2 + 11^2$	$1^2 + 9^2 + 13^2$	$1^2 + 5^2 + 15^2$
		$1^3 + 5^3 + 5^3$	$2^3 + 3^3 + 6^3$	$126^2 - 125^2$	$2 \cdot 5! + 1 \cdot 3! + 2 \cdot 2! + 1!$	
252	11 111 100 100100	$2^2 \cdot 3^2 \cdot 7$	$16^2 - 2^2$	$24^2 - 18^2$	$64^2 - 62^2$	$\binom{10}{5}$
					$2 \cdot 5! + 2 \cdot 3!$	
253	11 111 101 100101	$11 \cdot 23$	$\sum_{n=1}^{22} n$	$3^2 + 10^2 + 12^2$	$4^3 + 4^3 + 5^3$	$17^2 - 6^2$
		$\binom{23}{2}$	$2 \cdot 5! + 2 \cdot 3! + 1!$	$r(23)$	$-s_{23}^{(22)}$	$127^2 - 126^2$
254	11 111 110 100102	$2 \cdot 127$	$6^2 + 7^2 + 13^2$	$2^2 + 9^2 + 13^2$	$3^2 + 7^2 + 14^2$	$2^2 + 5^2 + 15^2$
		$2 \cdot 5! + 2 \cdot 3! + 1 \cdot 2!$				
255	11 111 111 100110	$3 \cdot 5 \cdot 17$	$16^2 - 1^2$	$28^2 - 23^2$	$44^2 - 41^2$	$128^2 - 127^2$
		$2^8 - 1^8$	$2 \cdot 2^3 - 1$	$2 \cdot 5! + 2 \cdot 3! + 1 \cdot 2! + 1!$	$g_9^{(2)}$	$4^4 - 1^4$
256	100 000 000 100111	2^8	4^4	16^2	$20^2 - 12^2$	$34^2 - 30^2$
		$2 \cdot 5! + 2 \cdot 3! + 2 \cdot 2!$		$q(29)$	$65^2 - 63^2$	
257	100 000 001 100112	prime	$1^2 + 16^2$	$6^2 + 10^2 + 11^2$	$7^2 + 8^2 + 12^2$	$5^2 + 6^2 + 14^2$
		$4^2 + 4^2 + 15^2$	$1^4 + 4^4$	$1^7 + 2^7 + 2^7$	$1^8 + 2^8$	$2 \cdot 2^3 + 1$
		$2 \cdot 5! + 2 \cdot 3! + 2 \cdot 2! + 1!$				$129^2 - 128^2$
258	100 000 010 100120	$2 \cdot 3 \cdot 43$	$4^2 + 11^2 + 11^2$	$5^2 + 8^2 + 13^2$	$1^2 + 1^2 + 16^2$	$2^3 + 5^3 + 5^3$
		$1^4 + 1^4 + 4^4$	$2 \cdot 5! + 3 \cdot 3!$			
259	100 000 011 100121	$7 \cdot 37$	$3^2 + 9^2 + 13^2$	$3^2 + 5^2 + 15^2$	$22^2 - 15^2$	$130^2 - 129^2$
		$2 \cdot 5! + 3 \cdot 3! + 1!$				
260	100 000 100 100122	$2^2 \cdot 5 \cdot 13$	$8^2 + 14^2$	$2^2 + 16^2$	$4^2 + 10^2 + 12^2$	$18^2 - 8^2$
		$2 \cdot 5! + 3 \cdot 3! + 1 \cdot 2!$				$66^2 - 64^2$
261	100 000 101 100200	$3^2 \cdot 29$	$6^2 + 15^2$	$4^2 + 7^2 + 14^2$	$1^2 + 8^2 + 14^2$	$1^2 + 2^2 + 16^2$
		$19^2 - 10^2$	$45^2 - 42^2$	$131^2 - 130^2$	$2 \cdot 5! + 3 \cdot 3! + 1 \cdot 2! + 1!$	

(continued)

Table III (continued)

262	100 000 110 100201	2·131	$9^2 + 9^2 + 10^2$	$1^2 + 6^2 + 15^2$	$2·5! + 3·3! + 2·2!$	
263	100 000 111 100202	prime	$132^2 - 131^2$	$2·5! + 3·3! + 2·2! + 1!$		
264	100 001 000 100210	$2^3·3·11$	$8^2 + 10^2 + 10^2$	$2^2 + 8^2 + 14^2$	$2^2 + 2^2 + 16^2$	$17^2 - 5^2$
			$25^2 - 9^2$	$35^2 - 31^2$	$67^2 - 65^2$	$2·5! + 1·4!$
265	100 001 001 100211	5·53	$11^2 + 12^2$	$3^2 + 16^2$	$2^2 + 6^2 + 15^2$	$29^2 - 24^2$
						$133^2 - 132^2$
			$2·5! + 1·4! + 1!$			
266	100 001 010 100212	$2·7·19$	$8^2 + 9^2 + 11^2$	$1^2 + 11^2 + 12^2$	$4^2 + 9^2 + 13^2$	$4^2 + 5^2 + 15^2$
			$1^2 + 3^2 + 16^2$	$2·5! + 1·4! + 1·2!$	$s_8^{(6)}$	
267	100 001 011 100220	3·89	$5^2 + 11^2 + 11^2$	$7^2 + 7^2 + 13^2$	$46^2 - 43^2$	$134^2 - 133^2$
				$2·5! + 1·4! + 1·2! + 1!$		
268	100 001 100 100221	$2^2·67$	$6^2 + 6^2 + 14^2$	$68^2 - 66^2$	$2·5! + 1·4! + 2·2!$	
269	100 001 101 100222	prime	$10^2 + 13^2$	$5^2 + 10^2 + 12^2$	$2^2 + 11^2 + 12^2$	$6^2 + 8^2 + 13^2$
			$3^2 + 8^2 + 14^2$	$2^2 + 3^2 + 16^2$	$135^2 - 134^2$	$2·5! + 1·4! + 2·2! + 1!$
270	100 001 110 101000	$2·3^3·5$	$7^2 + 10^2 + 11^2$	$1^2 + 10^2 + 13^2$	$5^2 + 7^2 + 14^2$	$3^2 + 6^2 + 15^2$
			$3^3 + 3^3 + 6^3$	$2·5! + 1·4! + 1·3!$		
271	100 001 111 101001	prime	$136^2 - 135^2$	$10^3 - 9^3$	$2·5! + 1·4! + 1·3! + 1!$	
272	100 010 000 101002	$2^4·17$	$4^2 + 16^2$	$8^2 + 8^2 + 12^2$	$2^4 + 4^4$	$21^2 - 13^2$
			$69^2 - 67^2$	$2·5! + 1·4! + 1·3! + 1·2!$		$36^2 - 32^2$
273	100 010 001 101010	$3·7·13$	$2^2 + 10^2 + 13^2$	$1^2 + 4^2 + 16^2$	$1^4 + 2^4 + 4^4$	$17^2 - 4^2$
			$23^2 - 16^2$	$47^2 - 44^2$	$137^2 - 136^2$	$2·5! + 1·4! + 1·3! + 1·2! + 1!$
274	100 010 010 101011	2·137	$7^2 + 15^2$	$7^2 + 9^2 + 12^2$	$3^2 + 11^2 + 12^2$	$3^2 + 3^2 + 16^2$
			$2·5! + 1·4! + 1·3! + 2·2!$	$s_6^{(2)}$		
275	100 010 011 101012	$5^2·11$	$5^2 + 9^2 + 13^2$	$5^2 + 5^2 + 15^2$	$1^2 + 7^2 + 15^2$	$2^5 + 3^5$
			$18^2 - 7^2$	$30^2 - 25^2$	$138^2 - 137^2$	$2·5! + 1·4! + 1·3! + 2·2! + 1!$
276	100 010 100 101020	$2^2·3·23$	$\sum_1^{23} n$	$4^2 + 8^2 + 14^2$	$2^2 + 4^2 + 16^2$	$1^5 + 2^5 + 3^5$
			$26^2 - 20^2$	$70^2 - 68^2$	$\binom{24}{2}$	$2·5! + 1·4! + 2·3!$
						$-s_{24}^{(23)}$
						$s_{24}^{(23)}$
277	100 010 101 101021	prime	$9^2 + 14^2$	$4^2 + 6^2 + 15^2$	$3^3 + 5^3 + 5^3$	$139^2 - 138^2$
			$2·5! + 1·4! + 2·3! + 1!$			

(continued)

Table III (continued)

278	100 010 110 101022	2·139	$6^2 + 11^2 + 11^2$	$3^2 + 10^2 + 13^2$	$1^2 + 9^2 + 14^2$	$2^2 + 7^2 + 15^2$
				$2 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$		
279	100 010 111 101100	$3^2 \cdot 31$	$20^2 - 11^2$	$48^2 - 45^2$	$140^2 - 139^2$	$7^3 - 4^3$
				$2 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$		
280	100 011 000 101101	$2^3 \cdot 5 \cdot 7$	$6^2 + 10^2 + 12^2$	$4^3 + 6^3$	$17^2 - 3^2$	$19^2 - 9^2$
			$71^2 - 69^2$	$2 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$		$37^2 - 33^2$
281	100 011 001 101102	prime	$5^2 + 16^2$	$9^2 + 10^2 + 10^2$	$4^2 + 11^2 + 12^2$	$6^2 + 7^2 + 14^2$
			$2^2 + 9^2 + 14^2$	$3^2 + 4^2 + 16^2$	$1^3 + 4^3 + 6^3$	$141^2 - 140^2$
				$2 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$		
282	100 011 010 101110	$2 \cdot 3 \cdot 47$	$7^2 + 8^2 + 13^2$	$1^2 + 5^2 + 16^2$	$2 \cdot 5! + 1 \cdot 4! + 3 \cdot 3!$	
283	100 011 011 101111	prime	$9^2 + 9^2 + 11^2$	$3^2 + 7^2 + 15^2$	$142^2 - 141^2$	
				$2 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1!$		
284	100 011 100 101112	$2^2 \cdot 71$	$72^2 - 70^2$	$2 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$		
285	100 011 101 101120	$3 \cdot 5 \cdot 19$	$8^2 + 10^2 + 11^2$	$4^2 + 10^2 + 13^2$	$5^2 + 8^2 + 14^2$	$2^2 + 5^2 + 16^2$
		$\frac{9}{1}n^2$	$17^2 - 2^2$	$31^2 - 26^2$	$49^2 - 46^2$	$143^2 - 142^2$
				$2 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$		
286	100 011 110 101121	$2 \cdot 11 \cdot 13$	$6^2 + 9^2 + 13^2$	$3^2 + 9^2 + 14^2$	$5^2 + 6^2 + 15^2$	$\binom{13}{3}$
				$2 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$		
287	100 011 111 101122	$7 \cdot 41$	$24^2 - 17^2$	$144^2 - 143^2$	$2 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$	
288	100 100 000 101200	$2^5 \cdot 3^2$	$12^2 + 12^2$	$4^2 + 4^2 + 16^2$	$2^3 + 4^3 + 6^3$	$2^4 + 2^4 + 4^4$
			$1 + 2^2 + 3^3 + 4^4$	$17^2 - 1^2$	$18^2 - 6^2$	$22^2 - 14^2$
			$38^2 - 34^2$	$73^2 - 71^2$	$2 \cdot 5! + 2 \cdot 4!$	$27^2 - 21^2$
289	100 100 001 101201	17^2	$8^2 + 15^2$	$8^2 + 9^2 + 12^2$	$1^2 + 12^2 + 12^2$	$145^2 - 144^2$
				$2 \cdot 5! + 2 \cdot 4! + 1!$		
290	100 100 010 101202	$2 \cdot 5 \cdot 29$	$11^2 + 13^2$	$1^2 + 17^2$	$5^2 + 11^2 + 12^2$	$4^2 + 7^2 + 15^2$
			$1^2 + 8^2 + 15^2$	$3^2 + 5^2 + 16^2$	$2 \cdot 5! + 2 \cdot 4! + 1 \cdot 2!$	
291	100 100 011 101210	$3 \cdot 97$	$7^2 + 11^2 + 11^2$	$1^2 + 11^2 + 13^2$	$1^2 + 1^2 + 17^2$	$50^2 - 47^2$
			$146^2 - 145^2$	$2 \cdot 5! + 2 \cdot 4! + 1 \cdot 2! + 1!$		
292	100 100 100 101211	$2^2 \cdot 73$	$6^2 + 16^2$	$2^2 + 12^2 + 12^2$	$74^2 - 72^2$	$2 \cdot 5! + 2 \cdot 4! + 2 \cdot 2!$
293	100 100 101 101212	prime	$2^2 + 17^2$	$7^2 + 10^2 + 12^2$	$4^2 + 9^2 + 14^2$	$2^2 + 8^2 + 15^2$
			$1^2 + 6^2 + 16^2$	$147^2 - 146^2$	$2 \cdot 5! + 2 \cdot 4! + 2 \cdot 2! + 1!$	

(continued)

Table III (continued)

294	100 100 110 101220	$2 \cdot 3 \cdot 7^2$	$5^2 + 10^2 + 13^2$	$2^2 + 11^2 + 13^2$	$7^2 + 7^2 + 14^2$	$1^2 + 2^2 + 17^2$
		$2 \cdot 5! + 2 \cdot 4! + 1 \cdot 3!$				
295	100 100 111 101221	5·59	$32^2 - 27^2$	$148^2 - 147^2$	$2 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1!$	
296	100 101 000 101222	$2^3 \cdot 37$	$10^2 + 14^2$	$6^2 + 8^2 + 14^2$	$2^2 + 6^2 + 16^2$	$39^2 - 35^2$
		$75^2 - 73^2$	$8^3 - 6^3$	$2 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$q(30)$	
297	100 101 001 102000	$3^3 \cdot 11$	$3^2 + 12^2 + 12^2$	$8^2 + 8^2 + 13^2$	$1^2 + 10^2 + 14^2$	$6^2 + 6^2 + 15^2$
		$4^2 + 5^2 + 16^2$	$2^2 + 2^2 + 17^2$	$19^2 - 8^2$	$21^2 - 12^2$	$51^2 - 48^2$
		$149^2 - 148^2$	$2 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$		$p(17)$	
298	100 101 010 102001	2·149	$3^2 + 17^2$	$3^2 + 8^2 + 15^2$	$2 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$	
299	100 101 011 102002	13·23	$7^2 + 9^2 + 13^2$	$3^2 + 11^2 + 13^2$	$5^2 + 7^2 + 15^2$	$1^2 + 3^2 + 17^2$
		$18^2 - 5^2$	$150^2 - 149^2$	$2 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$		
300	100 101 100 102010	$2^2 \cdot 3 \cdot 5^2$	$\sum_{n=1}^{24} n$	$10^2 + 10^2 + 10^2$	$2^2 + 10^2 + 14^2$	$20^2 - 10^2$
		$76^2 - 74^2$	$\binom{25}{2}$	$2 \cdot 5! + 2 \cdot 4! + 2 \cdot 3!$	$-s_{25}^{(24)}$	$g_{25}^{(24)}$
301	100 101 101 102011	7·43	$6^2 + 11^2 + 12^2$	$3^2 + 6^2 + 16^2$	$25^2 - 18^2$	$151^2 - 150^2$
		$2 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1!$		$g_7^{(3)}$		
302	100 101 110 102012	2·151	$9^2 + 10^2 + 11^2$	$5^2 + 9^2 + 14^2$	$2^2 + 3^2 + 17^2$	
		$2 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$				
303	100 101 111 102020	3·101	$52^2 - 49^2$	$152^2 - 151^2$	$2 \cdot 5! + 2 \cdot 4! + 1 \cdot 2! + 1!$	
304	100 110 000 102021	$2^4 \cdot 19$	$4^2 + 12^2 + 12^2$	$23^2 - 15^2$	$40^2 - 36^2$	$77^2 - 75^2$
		$2 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$				
305	100 110 001 102022	5·61	$7^2 + 16^2$	$4^2 + 17^2$	$6^2 + 10^2 + 13^2$	$3^2 + 10^2 + 14^2$
		$4^2 + 8^2 + 15^2$	$33^2 - 28^2$	$153^2 - 152^2$	$2 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$	
306	100 110 010 102100	$2 \cdot 3^2 \cdot 17$	$9^2 + 15^2$	$8^2 + 11^2 + 11^2$	$9^2 + 9^2 + 12^2$	$4^2 + 11^2 + 13^2$
		$5^2 + 5^2 + 16^2$	$1^2 + 7^2 + 16^2$	$1^2 + 4^2 + 17^2$	$2 \cdot 5! + 2 \cdot 4! + 3 \cdot 3!$	
307	100 110 011 102101	prime	$1^2 + 9^2 + 15^2$	$3^2 + 3^2 + 17^2$	$3^3 + 4^3 + 6^3$	$2^5 + 2^5 + 3^5$
		$154^2 - 153^2$	$2 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1!$			
308	100 110 100 102102	$2^2 \cdot 7 \cdot 11$	$8^2 + 10^2 + 12^2$	$4^2 + 6^2 + 16^2$	$18^2 - 4^2$	$78^2 - 76^2$
		$2 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$				
309	100 110 101 102110	3·103	$7^2 + 8^2 + 14^2$	$2^2 + 7^2 + 16^2$	$2^2 + 4^2 + 17^2$	$53^2 - 50^2$
		$155^2 - 154^2$	$2 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$			
310	100 110 110 102111	2·5·31	$6^2 + 7^2 + 15^2$	$2^2 + 9^2 + 15^2$	$2 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$	

(continued)

Table III (continued)

311	100 110 111 102112	prime	$156^2 - 155^2$	$2 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$		
312	100 111 000 102120	$2^3 \cdot 3 \cdot 13$	$4^2 + 10^2 + 14^2$	$19^2 - 7^2$	$29^2 - 23^2$	$41^2 - 37^2$ $79^2 - 77^2$
			$2 \cdot 5! + 3 \cdot 4!$			
313	100 111 001 102121	prime	$12^2 + 13^2$	$5^2 + 12^2 + 12^2$	$6^2 + 9^2 + 14^2$	$157^2 - 156^2$
			$2 \cdot 5! + 3 \cdot 4! + 1!$			
314	100 111 010 102122	$2 \cdot 157$	$5^2 + 17^2$	$7^2 + 11^2 + 12^2$	$8^2 + 9^2 + 13^2$	$1^2 + 12^2 + 13^2$
			$5^2 + 8^2 + 15^2$	$3^2 + 7^2 + 16^2$	$3^2 + 4^2 + 17^2$	$4^3 + 5^3 + 5^3$
			$2 \cdot 5! + 3 \cdot 4! + 1 \cdot 2!$			
315	100 111 011 102200	$3^2 \cdot 5 \cdot 7$	$5^2 + 11^2 + 13^2$	$3^2 + 9^2 + 15^2$	$1^2 + 5^2 + 17^2$	$18^2 - 3^2$
			$22^2 - 13^2$	$26^2 - 19^2$	$34^2 - 29^2$	$54^2 - 51^2$ $158^2 - 157^2$
			$2 \cdot 5! + 3 \cdot 4! + 1 \cdot 2! + 1!$			
316	100 111 100 102201	$2^2 \cdot 79$	$80^2 - 78^2$	$7^3 - 3^3$	$2 \cdot 5! + 3 \cdot 4! + 2 \cdot 2!$	
317	100 111 101 102202	prime	$11^2 + 14^2$	$2^2 + 12^2 + 13^2$	$5^2 + 6^2 + 16^2$	$159^2 - 158^2$
			$2 \cdot 5! + 3 \cdot 4! + 2 \cdot 2! + 1!$			
318	100 111 110 102210	$2 \cdot 3 \cdot 53$	$7^2 + 10^2 + 13^2$	$1^2 + 11^2 + 14^2$	$2^2 + 5^2 + 17^2$	
			$2 \cdot 5! + 3 \cdot 4! + 1 \cdot 3!$			
319	100 111 111 102211	$11 \cdot 29$	$20^2 - 9^2$	$160^2 - 159^2$	$2 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1!$	
320	101 000 000 102212	$2^6 \cdot 5$	$8^2 + 16^2$	$18^2 - 2^2$	$21^2 - 11^2$	$24^2 - 16^2$ $42^2 - 38^2$
			$81^2 - 79^2$	$2 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$r(24)$	
321	101 000 001 102220	$3 \cdot 107$	$10^2 + 10^2 + 11^2$	$5^2 + 10^2 + 14^2$	$2^2 + 11^2 + 14^2$	$4^2 + 7^2 + 16^2$
			$1^2 + 8^2 + 16^2$	$4^2 + 4^2 + 17^2$	$55^2 - 52^2$	$161^2 - 160^2$
			$2 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$			
322	101 000 010 102221	$2 \cdot 7 \cdot 23$	$3^2 + 12^2 + 13^2$	$4^2 + 9^2 + 15^2$	$2 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$	$s_8^{(6)}$
323	101 000 011 102222	$17 \cdot 19$	$9^2 + 11^2 + 11^2$	$7^2 + 7^2 + 15^2$	$3^2 + 5^2 + 17^2$	$18^2 - 1^2$
			$162^2 - 161^2$	$2 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$		
324	101 000 100 110000	$2^2 \cdot 3^4$	18^2	$6^2 + 12^2 + 12^2$	$8^2 + 8^2 + 14^2$	$2^2 + 8^2 + 16^2$ $30^2 - 24^2$
			$82^2 - 80^2$	$2 \cdot 5! + 3 \cdot 4! + 2 \cdot 3!$		
325	101 000 101 110001	$5^2 \cdot 13$	$\sum_{n=1}^{25} n$	$10^2 + 15^2$	$6^2 + 17^2$	$1^2 + 18^2$ $9^2 + 10^2 + 12^2$
			$6^2 + 8^2 + 15^2$	$19^2 - 6^2$	$35^2 - 30^2$	$163^2 - 162^2$ $\binom{26}{2}$
			$2 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1!$			

(continued)

Table III (continued)

326	101 000 110 110002	$2 \cdot 163$ $6^2 + 11^2 + 13^2$ $7^2 + 9^2 + 14^2$ $3^2 + 11^2 + 14^2$ $1^2 + 10^2 + 15^2$ $1^2 + 6^2 + 17^2$ $1^2 + 1^2 + 18^2$ $2 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
327	101 000 111 110010	$3 \cdot 109$ $56^2 - 53^2$ $164^2 - 163^2$ $2 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
328	101 001 000 110011	$2^3 \cdot 41$ $2^2 + 18^2$ $6^2 + 6^2 + 16^2$ $43^2 - 39^2$ $83^2 - 81^2$ $2 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
329	101 001 001 110012	$7 \cdot 47$ $8^2 + 11^2 + 12^2$ $4^2 + 12^2 + 13^2$ $2^2 + 10^2 + 15^2$ $3^2 + 8^2 + 16^2$ $2^2 + 6^2 + 17^2$ $1^2 + 2^2 + 18^2$ $27^2 - 20^2$ $165^2 - 164^2$ $2 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
330	101 001 010 110020	$2 \cdot 3 \cdot 5 \cdot 11$ $5^2 + 7^2 + 16^2$ $4^2 + 5^2 + 17^2$ $\binom{11}{4}$ $2 \cdot 5! + 3 \cdot 4! + 3 \cdot 3!$
331	101 001 011 110021	prime $9^2 + 9^2 + 13^2$ $5^2 + 9^2 + 15^2$ $166^2 - 165^2$ $11^3 - 10^3$ $2 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1!$
332	101 001 100 110022	$2^2 \cdot 83$ $6^2 + 10^2 + 14^2$ $2^2 + 2^2 + 18^2$ $84^2 - 82^2$ $2 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
333	101 001 101 110100	$3^2 \cdot 37$ $3^2 + 18^2$ $8^2 + 10^2 + 13^2$ $4^2 + 11^2 + 14^2$ $23^2 - 14^2$ $57^2 - 54^2$ $167^2 - 166^2$ $2 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$
334	101 001 110 110101	$2 \cdot 167$ $3^2 + 10^2 + 15^2$ $3^2 + 6^2 + 17^2$ $1^2 + 3^2 + 18^2$ $2 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$
335	101 001 111 110102	$5 \cdot 67$ $36^2 - 31^2$ $168^2 - 167^2$ $7^3 - 2^3$ $2 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$
336	101 010 000 110110	$2^4 \cdot 3 \cdot 7$ $4^2 + 8^2 + 16^2$ $19^2 - 5^2$ $20^2 - 8^2$ $25^2 - 17^2$ $31^2 - 25^2$ $44^2 - 40^2$ $85^2 - 83^2$ $2 \cdot 5! + 4 \cdot 4!$
337	101 010 001 110111	prime $9^2 + 16^2$ $7^2 + 12^2 + 12^2$ $2^2 + 3^2 + 18^2$ $3^4 + 4^4$ $169^2 - 168^2$ $2 \cdot 5! + 4 \cdot 4! + 1!$
338	101 010 010 110112	$2 \cdot 13^2$ $13^2 + 13^2$ $7^2 + 17^2$ $5^2 + 12^2 + 13^2$ $7^2 + 8^2 + 15^2$ $1^2 + 9^2 + 16^2$ $1^4 + 3^4 + 4^4$ $2 \cdot 5! + 4 \cdot 4! + 1 \cdot 2!$
339	101 010 011 110120	$3 \cdot 113$ $7^2 + 11^2 + 13^2$ $1^2 + 13^2 + 13^2$ $5^2 + 5^2 + 17^2$ $1^2 + 7^2 + 17^2$ $58^2 - 55^2$ $170^2 - 169^2$ $2 \cdot 5! + 4 \cdot 4! + 1 \cdot 2! + 1!$
340	101 010 100 110121	$2^2 \cdot 5 \cdot 17$ $12^2 + 14^2$ $4^2 + 18^2$ $22^2 - 12^2$ $86^2 - 84^2$ $2 \cdot 5! + 4 \cdot 4! + 2 \cdot 2!$ $q(31)$
341	101 010 101 110122	$11 \cdot 31$ $8^2 + 9^2 + 14^2$ $1^2 + 12^2 + 14^2$ $4^2 + 10^2 + 15^2$ $6^2 + 7^2 + 16^2$ $2^2 + 9^2 + 16^2$ $4^2 + 6^2 + 17^2$ $1^2 + 4^2 + 18^2$ $5^3 + 6^3$ $21^2 - 10^2$ $171^2 - 170^2$ $2 \cdot 5! + 4 \cdot 4! + 2 \cdot 2! + 1!$

(continued)

Table III (continued)

342	101 010 110 110200	$2 \cdot 3^2 \cdot 19$ $2^2 + 7^2 + 17^2$	$10^2 + 11^2 + 11^2$ $3^2 + 3^2 + 18^2$	$2^2 + 13^2 + 13^2$ $1^3 + 5^3 + 6^3$	$5^2 + 11^2 + 14^2$ $7^3 - 1^3$	$6^2 + 9^2 + 15^2$ $2 \cdot 5! + 4 \cdot 4! + 1 \cdot 3!$
343	101 010 111 110201	7^3	$28^2 - 21^2$	$172^2 - 171^2$	$2 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1!$	
344	101 011 000 110202	$2^3 \cdot 43$ $4^3 + 4^3 + 6^3$	$10^2 + 10^2 + 12^2$ $45^2 - 41^2$	$2^2 + 12^2 + 14^2$ $87^2 - 85^2$	$2^2 + 4^2 + 18^2$ $2 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$1^3 + 7^3$
345	101 011 001 110210	$3 \cdot 5 \cdot 23$ $37^2 - 32^2$	$7^2 + 10^2 + 14^2$ $59^2 - 56^2$	$5^2 + 8^2 + 16^2$ $173^2 - 172^2$	$1^3 + 1^3 + 7^3$ $2 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$	$19^2 - 4^2$
346	101 011 010 110211	$2 \cdot 173$	$11^2 + 15^2$	$9^2 + 11^2 + 12^2$	$3^2 + 9^2 + 16^2$	$2 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$
347	101 011 011 110212	prime	$3^2 + 13^2 + 13^2$	$1^2 + 11^2 + 15^2$	$3^2 + 7^2 + 17^2$	$174^2 - 173^2$ $2 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$
348	101 011 100 110220	$2^2 \cdot 3 \cdot 29$	$32^2 - 26^2$	$88^2 - 86^2$	$2 \cdot 5! + 4 \cdot 4! + 2 \cdot 3!$	
349	101 011 101 110221	prime	$5^2 + 18^2$	$6^2 + 12^2 + 13^2$	$3^2 + 12^2 + 14^2$	$3^2 + 4^2 + 18^2$ $2^3 + 5^3 + 6^3$ $175^2 - 174^2$ $2 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1!$
350	101 011 110 110222	$2 \cdot 5^2 \cdot 7$	$9^2 + 10^2 + 13^2$	$5^2 + 10^2 + 15^2$	$2^2 + 11^2 + 15^2$	$5^2 + 6^2 + 17^2$ $1^2 + 5^2 + 18^2$ $(\frac{7}{4})$ $2 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
351	101 011 111 111000	$3^3 \cdot 13$ $(\frac{27}{2})$	$\sum_1^6 n$ $2^3 + 7^3$	$20^2 - 7^2$	$24^2 - 15^2$	$60^2 - 57^2$ $176^2 - 175^2$ $2 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
352	101 100 000 111001	$2^5 \cdot 11$	$8^2 + 12^2 + 12^2$	$1^3 + 2^3 + 7^3$	$19^2 - 3^2$	$26^2 - 18^2$ $46^2 - 42^2$ $89^2 - 87^2$ $2 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
353	101 100 001 111002	prime	$8^2 + 17^2$	$6^2 + 11^2 + 14^2$	$8^2 + 8^2 + 15^2$	$4^2 + 9^2 + 16^2$ $2^2 + 5^2 + 18^2$ $2^4 + 3^4 + 4^4$ $177^2 - 176^2$ $2 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
354	101 100 010 111010	$2 \cdot 3 \cdot 59$	$8^2 + 11^2 + 13^2$	$4^2 + 13^2 + 13^2$	$7^2 + 7^2 + 16^2$	$4^2 + 7^2 + 17^2$ $1^2 + 8^2 + 17^2$ $1^4 + 2^4 + 3^4 + 4^4$ $2 \cdot 5! + 4 \cdot 4! + 3 \cdot 3!$
355	101 100 011 111011	$5 \cdot 71$	$7^2 + 9^2 + 15^2$	$3^2 + 11^2 + 15^2$	$38^2 - 33^2$	$178^2 - 177^2$ $2 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1!$
356	101 100 100 111012	$2^2 \cdot 89$	$10^2 + 16^2$	$4^2 + 12^2 + 14^2$	$6^2 + 8^2 + 16^2$	$4^2 + 4^2 + 18^2$ $90^2 - 88^2$ $2 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
357	101 100 101 111020	$3 \cdot 7 \cdot 17$	$1^2 + 10^2 + 16^2$	$2^2 + 8^2 + 17^2$	$19^2 - 2^2$	$29^2 - 22^2$ $61^2 - 58^2$ $179^2 - 178^2$ $2 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$

(continued)

Table III (continued)

358	101 100 110 111021	2·179	$9^2 + 9^2 + 14^2$	$3^2 + 5^2 + 18^2$	$2 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$
359	101 100 111 111022	prime	$2^3 + 2^3 + 7^3$	$180^2 - 179^2$	$2 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$
360	101 101 000 111100	$2^3 \cdot 3^2 \cdot 5$	$6^2 + 18^2$	$8^2 + 10^2 + 14^2$	$2^2 + 10^2 + 16^2$ $19^2 - 1^2$
			$21^2 - 9^2$ $23^2 - 13^2$	$33^2 - 27^2$ $47^2 - 43^2$	$91^2 - 89^2$ $3 \cdot 5!$
361	101 101 001 111101	19^2	$6^2 + 10^2 + 15^2$	$6^2 + 6^2 + 17^2$	$1^2 + 6^2 + 18^2$ $181^2 - 180^2$
					$3 \cdot 5! + 1!$
362	101 101 010 111102	2·181	$1^2 + 19^2$	$7^2 + 12^2 + 13^2$	$4^2 + 11^2 + 15^2$ $5^2 + 9^2 + 16^2$
			$3^2 + 8^2 + 17^2$	$3 \cdot 5! + 1 \cdot 2!$	
363	101 101 011 111110	$3 \cdot 11^2$	$11^2 + 11^2 + 11^2$	$5^2 + 13^2 + 13^2$	$5^2 + 7^2 + 17^2$ $1^2 + 1^2 + 19^2$
			$22^2 - 11^2$ $62^2 - 59^2$	$182^2 - 181^2$	$3 \cdot 5! + 1 \cdot 2! + 1!$
364	101 101 100 111111	$2^2 \cdot 7 \cdot 13$	$2^2 + 6^2 + 18^2$	$20^2 - 6^2$	$92^2 - 90^2$ $\binom{14}{3}$ $3 \cdot 5! + 2 \cdot 2!$
365	101 101 101 111112	5·73	$13^2 + 14^2$	$2^2 + 19^2$	$10^2 + 11^2 + 12^2$ $5^2 + 12^2 + 14^2$
			$3^2 + 10^2 + 16^2$ $4^2 + 5^2 + 18^2$	$39^2 - 34^2$ $183^2 - 182^2$	$3 \cdot 5! + 2 \cdot 2! + 1!$
366	101 101 110 111120	2·3·61	$7^2 + 11^2 + 14^2$	$1^2 + 13^2 + 14^2$	$1^2 + 2^2 + 19^2$ $3 \cdot 5! + 1 \cdot 3!$
367	101 101 111 111121	prime	$184^2 - 183^2$	$3 \cdot 5! + 1 \cdot 3! + 1!$	
368	101 110 000 111122	$2^4 \cdot 23$	$3^3 + 5^3 + 6^3$	$27^2 - 19^2$	$48^2 - 44^2$ $93^2 - 91^2$
					$3 \cdot 5! + 1 \cdot 3! + 1 \cdot 2!$
369	101 110 001 111200	$3^2 \cdot 41$	$12^2 + 15^2$	$9^2 + 12^2 + 12^2$	$10^2 + 10^2 + 13^2$ $2^2 + 13^2 + 14^2$
			$7^2 + 8^2 + 16^2$ $4^2 + 8^2 + 17^2$	$3^2 + 6^2 + 18^2$ $2^2 + 2^2 + 19^2$	$25^2 - 16^2$
			$63^2 - 60^2$ $185^2 - 184^2$	$5^4 - 4^4$ $3 \cdot 5! + 1 \cdot 3! + 1 \cdot 2! + 1!$	
370	101 110 010 111201	2·5·37	$9^2 + 17^2$	$3^2 + 19^2$	$8^2 + 9^2 + 15^2$ $1^2 + 12^2 + 15^2$ $3^3 + 7^3$
					$3 \cdot 5! + 1 \cdot 3! + 2 \cdot 2!$
371	101 110 011 111202	7·53	$9^2 + 11^2 + 13^2$	$5^2 + 11^2 + 15^2$	$1^2 + 9^2 + 17^2$ $1^2 + 3^2 + 19^2$
			$1^3 + 3^3 + 7^3$ $30^2 - 23^2$	$186^2 - 185^2$	$3 \cdot 5! + 1 \cdot 3! + 2 \cdot 2! + 1!$
372	101 110 100 111210	$2^2 \cdot 3 \cdot 31$	$4^2 + 10^2 + 16^2$	$34^2 - 28^2$	$94^2 - 92^2$ $3 \cdot 5! + 2 \cdot 3!$
373	101 110 101 111211	prime	$7^2 + 18^2$	$2^2 + 12^2 + 15^2$	$6^2 + 9^2 + 16^2$ $187^2 - 186^2$
					$3 \cdot 5! + 2 \cdot 3! + 1!$

(continued)

Table III (continued)

374	101 110 110 111212	$2 \cdot 11 \cdot 17$ $2^2 + 9^2 + 17^2$ $3 \cdot 5! + 2 \cdot 3! + 1 \cdot 2!$	$6^2 + 13^2 + 13^2$ $5^2 + 5^2 + 18^2$	$3^2 + 13^2 + 14^2$ $1^2 + 7^2 + 18^2$	$7^2 + 10^2 + 15^2$ $2^2 + 3^2 + 19^2$	$6^2 + 7^2 + 17^2$
375	101 110 111 111220	$3 \cdot 5^3$ $3 \cdot 5! + 2 \cdot 3! + 1 \cdot 2! + 1!$	$5^3 + 5^3 + 5^3$ $20^2 - 5^2$	$40^2 - 35^2$	$64^2 - 61^2$	$188^2 - 187^2$
376	101 111 000 111221	$2^3 \cdot 47$ $3 \cdot 5! + 2 \cdot 3! + 2 \cdot 2!$	$6^2 + 12^2 + 14^2$ automorphic	$4^2 + 6^2 + 18^2$	$49^2 - 45^2$	$95^2 - 93^2$
377	101 111 001 111222	$13 \cdot 29$ $2^2 + 7^2 + 18^2$	$11^2 + 16^2$ $21^2 - 8^2$	$4^2 + 19^2$ $189^2 - 188^2$	$8^2 + 12^2 + 13^2$ $3 \cdot 5! + 2 \cdot 3! + 2 \cdot 2! + 1!$	$9^2 + 10^2 + 14^2$
378	101 111 010 112000	$2 \cdot 3^3 \cdot 7$ $1^2 + 4^2 + 19^2$	$\sum_{n=1}^{27} n$ $2^3 + 3^3 + 7^3$	$3^2 + 12^2 + 15^2$ $(\binom{28}{2})$	$1^2 + 11^2 + 16^2$ $3 \cdot 5! + 3 \cdot 3!$	$5^2 + 8^2 + 17^2$
379	101 111 011 112001	prime $3^2 + 9^2 + 17^2$	$3^2 + 3^2 + 19^2$	$190^2 - 189^2$	$3 \cdot 5! + 3 \cdot 3! + 1!$	
380	101 111 100 112002	$2^2 \cdot 5 \cdot 19$ $24^2 - 14^2$	$96^2 - 94^2$	$3 \cdot 5! + 3 \cdot 3! + 1 \cdot 2!$		
381	101 111 101 112010	$3 \cdot 127$ $2^2 + 4^2 + 19^2$	$8^2 + 11^2 + 14^2$ $65^2 - 62^2$	$4^2 + 13^2 + 14^2$ $191^2 - 190^2$	$5^2 + 10^2 + 16^2$ $3 \cdot 5! + 3 \cdot 3! + 1 \cdot 2! + 1!$	$2^2 + 11^2 + 16^2$
382	101 111 110 112011	$2 \cdot 191$ $6^2 + 11^2 + 15^2$	$3^2 + 7^2 + 18^2$	$3 \cdot 5! + 3 \cdot 3! + 2 \cdot 2!$		
383	101 111 111 112012	prime $192^2 - 191^2$	$3 \cdot 5! + 3 \cdot 3! + 2 \cdot 2! + 1!$	$r(25)$		
384	110 000 000 112020	$2^7 \cdot 3$ $28^2 - 20^2$	$2 \cdot 4 \cdot 6 \cdot 8$ $35^2 - 29^2$	$8^2 + 8^2 + 16^2$ $50^2 - 46^2$	$2^7 + 2^7 + 2^7$ $97^2 - 95^2$	$20^2 - 4^2$ $3 \cdot 5! + 1 \cdot 4!$
385	110 000 001 112021	$5 \cdot 7 \cdot 11$ $41^2 - 36^2$	$4^2 + 12^2 + 15^2$ $193^2 - 192^2$	$5^2 + 6^2 + 18^2$ $3 \cdot 5! + 1 \cdot 4! + 1!$	$\sum_{n=1}^{10} n^2$ $p(18)$	$23^2 - 12^2$ $31^2 - 24^2$
386	110 000 010 112022	$2 \cdot 193$ $4^2 + 9^2 + 17^2$	$5^2 + 19^2$ $3^2 + 4^2 + 19^2$	$11^2 + 11^2 + 12^2$ $9^3 - 7^3$	$7^2 + 9^2 + 16^2$ $3 \cdot 5! + 1 \cdot 4! + 1 \cdot 2!$	$3^2 + 11^2 + 16^2$
387	110 000 011 112100	$3^2 \cdot 43$ $26^2 - 17^2$	$7^2 + 13^2 + 13^2$ $66^2 - 63^2$	$9^2 + 9^2 + 15^2$ $194^2 - 193^2$	$7^2 + 7^2 + 17^2$ $8^3 - 5^3$	$1^2 + 5^2 + 19^2$ $3 \cdot 5! + 1 \cdot 4! + 1 \cdot 2! + 1!$
388	110 000 100 112101	$2^2 \cdot 97$ $8^2 + 18^2$	$10^2 + 12^2 + 12^2$	$98^2 - 96^2$	$3 \cdot 5! + 1 \cdot 4! + 2 \cdot 2!$	
389	110 000 101 112102	prime $4^2 + 7^2 + 18^2$	$10^2 + 17^2$ $1^2 + 8^2 + 18^2$	$7^2 + 12^2 + 14^2$ $195^2 - 194^2$	$8^2 + 10^2 + 15^2$ $3 \cdot 5! + 1 \cdot 4! + 2 \cdot 2! + 1!$	$6^2 + 8^2 + 17^2$

(continued)

Table III (continued)

390	110 000 110 112110	$2 \cdot 3 \cdot 5 \cdot 13$	$10^2 + 11^2 + 13^2$	$5^2 + 13^2 + 14^2$	$1^2 + 10^2 + 17^2$	$2^2 + 5^2 + 19^2$
		$3 \cdot 5! + 1 \cdot 4! + 1 \cdot 3!$	$q(32)$			
391	110 000 111 112111	17·23	$20^2 - 3^2$	$196^2 - 195^2$	$3 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1!$	
392	110 001 000 112112	$2^3 \cdot 7^2$	$14^2 + 14^2$	$6^2 + 10^2 + 16^2$	$2^2 + 8^2 + 18^2$	$21^2 - 7^2$
		$51^2 - 47^2$	$99^2 - 97^2$	$3 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$		
393	110 001 001 112120	$3 \cdot 131$	$1^2 + 14^2 + 14^2$	$4^2 + 11^2 + 16^2$	$2^2 + 10^2 + 17^2$	$4^2 + 4^2 + 19^2$
		$67^2 - 64^2$	$197^2 - 196^2$	$3 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$		
394	110 001 010 112121	$2 \cdot 197$	$13^2 + 15^2$	$9^2 + 12^2 + 13^2$	$5^2 + 12^2 + 15^2$	
			$3 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$			
395	110 001 011 112122	5·79	$7^2 + 11^2 + 15^2$	$1^2 + 13^2 + 15^2$	$5^2 + 9^2 + 17^2$	$3^2 + 5^2 + 19^2$
		$42^2 - 37^2$	$198^2 - 197^2$	$3 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$		
396	110 001 100 112200	$2^2 \cdot 3^2 \cdot 11$	$10^2 + 10^2 + 14^2$	$2^2 + 14^2 + 14^2$	$6^2 + 6^2 + 18^2$	$20^2 - 2^2$
		$36^2 - 30^2$	$100^2 - 98^2$	$3 \cdot 5! + 1 \cdot 4! + 2 \cdot 3!$		
397	110 001 101 112201	prime	$6^2 + 19^2$	$3^2 + 8^2 + 18^2$	$3^3 + 3^3 + 7^3$	$199^2 - 198^2$ $12^3 - 11^3$
			$3 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1!$			
398	110 001 110 112202	$2 \cdot 199$	$9^2 + 11^2 + 14^2$	$2^2 + 13^2 + 15^2$	$3^2 + 10^2 + 17^2$	$5^2 + 7^2 + 18^2$
			$1^2 + 6^2 + 19^2$	$3 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$		
399	110 001 111 112210	$3 \cdot 7 \cdot 19$	$20^2 - 1^2$	$32^2 - 25^2$	$68^2 - 65^2$	$200^2 - 199^2$
			$3 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$			
400	110 010 000 112211	$2^4 \cdot 5^2$	20^2	$12^2 + 16^2$	$25^2 - 15^2$	$29^2 - 21^2$ $52^2 - 48^2$
			$101^2 - 99^2$	$3 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$		
401	110 010 001 112212	prime	$1^2 + 20^2$	$6^2 + 13^2 + 14^2$	$3^2 + 14^2 + 14^2$	$8^2 + 9^2 + 16^2$
			$1^2 + 12^2 + 16^2$	$2^2 + 6^2 + 19^2$	$201^2 - 200^2$	$3 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
402	110 010 010 112220	$2 \cdot 3 \cdot 67$	$8^2 + 13^2 + 13^2$	$5^2 + 11^2 + 16^2$	$7^2 + 8^2 + 17^2$	$4^2 + 5^2 + 19^2$
			$1^2 + 1^2 + 20^2$	$3 \cdot 5! + 1 \cdot 4! + 3 \cdot 3!$		
403	110 010 011 112221	13·31	$3^2 + 13^2 + 15^2$	$22^2 - 9^2$	$202^2 - 201^2$	$3 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1!$
404	110 010 100 112222	$2^2 \cdot 101$	$2^2 + 20^2$	$8^2 + 12^2 + 14^2$	$2^2 + 12^2 + 16^2$	$4^2 + 8^2 + 18^2$
			$102^2 - 100^2$	$3 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$		
405	110 010 101 120000	$3^4 \cdot 5$	$9^2 + 18^2$	$6^2 + 12^2 + 15^2$	$7^2 + 10^2 + 16^2$	$4^2 + 10^2 + 17^2$
			$1^2 + 2^2 + 20^2$	$4^3 + 5^3 + 6^3$	$21^2 - 6^2$ $27^2 - 18^2$	$43^2 - 38^2$
			$69^2 - 66^2$	$203^2 - 202^2$	$3 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$	

(continued)

Table III (continued)

406	110 010 110 120001	$2 \cdot 7 \cdot 29$ $3^2 + 6^2 + 19^2$	$\sum_{n=1}^{28} n$ $\binom{29}{2}$	$9^2 + 10^2 + 15^2$ $3 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$	$6^2 + 9^2 + 17^2$	$1^2 + 9^2 + 18^2$
407	110 010 111 120002	$11 \cdot 37$	$4^3 + 7^3$	$24^2 - 13^2$ $204^2 - 203^2$	$3 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$	
408	110 011 000 120010	$2^3 \cdot 3 \cdot 17$ $37^2 - 31^2$	$4^2 + 14^2 + 14^2$ $53^2 - 49^2$	$2^2 + 2^2 + 20^2$ $103^2 - 101^2$	$1^3 + 4^3 + 7^3$ $3 \cdot 5! + 2 \cdot 4!$	$23^2 - 11^2$
409	110 011 001 120011	prime $2^2 + 9^2 + 18^2$	$3^2 + 20^2$ $205^2 - 204^2$	$11^2 + 12^2 + 12^2$ $3 \cdot 5! + 2 \cdot 4! + 1!$	$3^2 + 12^2 + 16^2$	$6^2 + 7^2 + 18^2$
410	110 011 010 120012	$2 \cdot 5 \cdot 41$	$11^2 + 17^2$ $1^2 + 3^2 + 20^2$	$7^2 + 19^2$ $3 \cdot 5! + 2 \cdot 4! + 1 \cdot 2!$	$8^2 + 11^2 + 15^2$	$4^2 + 13^2 + 15^2$
411	110 011 011 120020	$3 \cdot 137$ $70^2 - 67^2$	$11^2 + 11^2 + 13^2$ $206^2 - 205^2$	$1^2 + 11^2 + 17^2$ $3 \cdot 5! + 2 \cdot 4! + 1 \cdot 2! + 1!$	$5^2 + 5^2 + 19^2$	$1^2 + 7^2 + 19^2$
412	110 011 100 120021	$2^2 \cdot 103$	$104^2 - 102^2$	$3 \cdot 5! + 2 \cdot 4! + 2 \cdot 2!$		
413	110 011 101 120022	$7 \cdot 59$ $2^2 + 3^2 + 20^2$	$10^2 + 12^2 + 13^2$ $33^2 - 26^2$	$6^2 + 11^2 + 16^2$ $207^2 - 206^2$	$5^2 + 8^2 + 18^2$ $3 \cdot 5! + 2 \cdot 4! + 2 \cdot 2! + 1!$	$4^2 + 6^2 + 19^2$
414	110 011 110 120100	$2 \cdot 3^2 \cdot 23$ $2^2 + 7^2 + 19^2$	$7^2 + 13^2 + 14^2$ $3 \cdot 5! + 2 \cdot 4! + 1 \cdot 3!$	$5^2 + 10^2 + 17^2$	$2^2 + 11^2 + 17^2$	$3^2 + 9^2 + 18^2$
415	110 011 111 120101	$5 \cdot 83$	$2^3 + 4^3 + 7^3$	$44^2 - 39^2$ $208^2 - 207^2$	$3 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1!$	
416	110 100 000 120102	$2^5 \cdot 13$ $105^2 - 103^2$	$4^2 + 20^2$ $3 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$4^2 + 12^2 + 16^2$	$21^2 - 5^2$ $30^2 - 22^2$	$54^2 - 50^2$
417	110 100 001 120110	$3 \cdot 139$ $71^2 - 68^2$	$10^2 + 11^2 + 14^2$ $209^2 - 208^2$	$5^2 + 14^2 + 14^2$ $3 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$	$8^2 + 8^2 + 17^2$	$1^2 + 4^2 + 20^2$
418	110 100 010 120111	$2 \cdot 11 \cdot 19$ $3 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$	$7^2 + 12^2 + 15^2$	$9^2 + 9^2 + 16^2$	$3^2 + 3^2 + 20^2$	$3^4 + 3^4 + 4^4$
419	110 100 011 120112	prime $3^2 + 7^2 + 19^2$	$9^2 + 13^2 + 13^2$ $210^2 - 209^2$	$5^2 + 13^2 + 15^2$ $3 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$	$7^2 + 9^2 + 17^2$	$3^2 + 11^2 + 17^2$
420	110 100 100 120120	$2^2 \cdot 3 \cdot 5 \cdot 7$ $38^2 - 32^2$	$8^2 + 10^2 + 16^2$ $106^2 - 104^2$	$2^2 + 4^2 + 20^2$ $3 \cdot 5! + 2 \cdot 4! + 2 \cdot 3!$	$22^2 - 8^2$	$26^2 - 16^2$
421	110 100 101 120121	prime $3 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1!$	$14^2 + 15^2$	$9^2 + 12^2 + 14^2$	$4^2 + 9^2 + 18^2$	$211^2 - 210^2$

(continued)

Table III (continued)

422	110 100 110 120122	$2 \cdot 211$ $1^2 + 14^2 + 15^2$ $7^2 + 7^2 + 18^2$ $5^2 + 6^2 + 19^2$ $3 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
423	110 100 111 120200	$3^2 \cdot 47$ $28^2 - 19^2$ $72^2 - 69^2$ $212^2 - 211^2$ $3 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
424	110 101 000 120201	$2^3 \cdot 53$ $10^2 + 18^2$ $6^2 + 8^2 + 18^2$ $55^2 - 51^2$ $107^2 - 105^2$ $3 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
425	110 101 001 120202	$5^2 \cdot 17$ $13^2 + 16^2$ $8^2 + 19^2$ $5^2 + 20^2$ $10^2 + 10^2 + 15^2$ $2^2 + 14^2 + 15^2$ $5^2 + 12^2 + 16^2$ $6^2 + 10^2 + 17^2$ $1^2 + 10^2 + 18^2$ $3^2 + 4^2 + 20^2$ $21^2 - 4^2$ $45^2 - 40^2$ $213^2 - 212^2$ $3 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
426	110 101 010 120210	$2 \cdot 3 \cdot 71$ $7^2 + 11^2 + 16^2$ $1^2 + 13^2 + 16^2$ $4^2 + 11^2 + 17^2$ $4^2 + 7^2 + 19^2$ $1^2 + 8^2 + 19^2$ $1^2 + 5^2 + 20^2$ $3 \cdot 5! + 2 \cdot 4! + 3 \cdot 3!$
427	110 101 011 120211	$7 \cdot 61$ $9^2 + 11^2 + 15^2$ $34^2 - 27^2$ $214^2 - 213^2$ $3 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1!$
428	110 101 100 120212	$2^2 \cdot 107$ $6^2 + 14^2 + 14^2$ $2^2 + 10^2 + 18^2$ $108^2 - 106^2$ $3 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
429	110 101 101 120220	$3 \cdot 11 \cdot 13$ $8^2 + 13^2 + 14^2$ $2^2 + 13^2 + 16^2$ $2^2 + 8^2 + 19^2$ $2^2 + 5^2 + 20^2$ $23^2 - 10^2$ $25^2 - 14^2$ $73^2 - 70^2$ $215^2 - 214^2$ $3 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$
430	110 101 110 120221	$2 \cdot 5 \cdot 43$ $6^2 + 13^2 + 15^2$ $3^2 + 14^2 + 15^2$ $5^2 + 9^2 + 18^2$ $3 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$
431	110 101 111 120222	prime $216^2 - 215^2$ $3 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$
432	110 110 000 121000	$2^4 \cdot 3^3$ $12^2 + 12^2 + 12^2$ $4^2 + 4^2 + 20^2$ $6^3 + 6^3$ $21^2 - 3^2$ $24^2 - 12^2$ $31^2 - 23^2$ $39^2 - 33^2$ $56^2 - 52^2$ $109^2 - 107^2$ $3 \cdot 5! + 3 \cdot 4!$
433	110 110 001 121001	prime $12^2 + 17^2$ $8^2 + 12^2 + 15^2$ $3^2 + 10^2 + 18^2$ $6^2 + 6^2 + 19^2$ $1^3 + 6^3 + 6^3$ $217^2 - 216^2$ $3 \cdot 5! + 3 \cdot 4! + 1!$
434	110 110 010 121002	$2 \cdot 7 \cdot 31$ $11^2 + 12^2 + 13^2$ $3^2 + 13^2 + 16^2$ $8^2 + 9^2 + 17^2$ $1^2 + 12^2 + 17^2$ $3^2 + 8^2 + 19^2$ $3^2 + 5^2 + 20^2$ $3^3 + 4^3 + 7^3$ $3 \cdot 5! + 3 \cdot 4! + 1 \cdot 2!$
435	110 110 011 121010	$3 \cdot 5 \cdot 29$ $\sum_1^{29} n$ $5^2 + 11^2 + 17^2$ $5^2 + 7^2 + 19^2$ $22^2 - 7^2$ $46^2 - 41^2$ $74^2 - 71^2$ $218^2 - 217^2$ $\binom{30}{2}$ $3 \cdot 5! + 3 \cdot 4! + 1 \cdot 2! + 1!$
436	110 110 100 121011	$2^2 \cdot 109$ $6^2 + 20^2$ $6^2 + 12^2 + 16^2$ $110^2 - 108^2$ $3 \cdot 5! + 3 \cdot 4! + 2 \cdot 2!$
437	110 110 101 121012	$19 \cdot 23$ $4^2 + 14^2 + 15^2$ $9^2 + 10^2 + 16^2$ $2^2 + 12^2 + 17^2$ $7^2 + 8^2 + 18^2$ $1^2 + 6^2 + 20^2$ $21^2 - 2^2$ $219^2 - 218^2$ $3 \cdot 5! + 3 \cdot 4! + 2 \cdot 2! + 1!$

(continued)

Table III (continued)

438	110 110 110 121020	$2 \cdot 3 \cdot 7 \cdot 3$	$10^2 + 13^2 + 13^2$	$11^2 + 11^2 + 14^2$	$7^2 + 10^2 + 17^2$	
			$3 \cdot 5! + 3 \cdot 4! + 1 \cdot 3!$			
439	110 110 111 121021	prime	$220^2 - 219^2$	$3 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1!$		
440	110 111 000 121022	$2^3 \cdot 5 \cdot 11$	$10^2 + 12^2 + 14^2$	$4^2 + 10^2 + 18^2$	$2^2 + 6^2 + 20^2$	$2^3 + 6^3 + 6^3$
			$21^2 - 1^2$	$27^2 - 17^2$	$57^2 - 53^2$	$111^2 - 109^2$
						$3 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$
441	110 111 001 121100	$3^2 \cdot 7^2$	21^2	$7^2 + 14^2 + 14^2$	$8^2 + 11^2 + 16^2$	$4^2 + 13^2 + 16^2$
			$6^2 + 9^2 + 18^2$	$4^2 + 8^2 + 19^2$	$4^2 + 5^2 + 20^2$	$\sum_{n=1}^6 3^{2n} - 20^2$
			$35^2 - 28^2$	$75^2 - 72^2$	$221^2 - 220^2$	$3 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$
442	110 111 010 121101	$2 \cdot 13 \cdot 17$	$9^2 + 19^2$	$1^2 + 21^2$	$3^2 + 12^2 + 17^2$	$3 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$
443	110 111 011 121102	prime	$7^2 + 13^2 + 15^2$	$1^2 + 9^2 + 19^2$	$1^2 + 1^2 + 21^2$	$222^2 - 221^2$
						$3 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$
444	110 111 100 121110	$2^2 \cdot 3 \cdot 37$	$40^2 - 34^2$	$112^2 - 110^2$	$3 \cdot 5! + 3 \cdot 4! + 2 \cdot 3!$	
445	110 111 101 121111	$5 \cdot 89$	$11^2 + 18^2$	$2^2 + 21^2$	$3^2 + 6^2 + 20^2$	$47^2 - 42^2$
						$223^2 - 222^2$
						$3 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1!$
446	110 111 110 121112	$2 \cdot 223$	$9^2 + 13^2 + 14^2$	$10^2 + 11^2 + 15^2$	$5^2 + 14^2 + 15^2$	$6^2 + 11^2 + 17^2$
			$1^2 + 11^2 + 18^2$	$6^2 + 7^2 + 19^2$	$2^2 + 9^2 + 19^2$	$1^2 + 2^2 + 21^2$
						$3 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
447	110 111 111 121120	$3 \cdot 149$	$76^2 - 73^2$	$224^2 - 223^2$	$3 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$	
448	111 000 000 121121	$2^6 \cdot 7$	$22^2 - 6^2$	$23^2 - 9^2$	$32^2 - 24^2$	$58^2 - 54^2$
			$8^3 - 4^3$	$3 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$	$q(33)$	$113^2 - 111^2$
449	111 000 001 121122	prime	$7^2 + 20^2$	$7^2 + 12^2 + 16^2$	$4^2 + 12^2 + 17^2$	$5^2 + 10^2 + 18^2$
			$2^2 + 11^2 + 18^2$	$2^2 + 2^2 + 21^2$	$225^2 - 224^2$	$3 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
450	111 000 010 121200	$2 \cdot 3^2 \cdot 5^2$	$15^2 + 15^2$	$3^2 + 21^2$	$9^2 + 12^2 + 15^2$	$5^2 + 13^2 + 16^2$
			$5^2 + 8^2 + 19^2$	$5^2 + 5^2 + 20^2$	$1^2 + 7^2 + 20^2$	$3 \cdot 5! + 3 \cdot 4! + 3 \cdot 3!$
451	111 000 011 121201	$11 \cdot 41$	$1^2 + 15^2 + 15^2$	$9^2 + 9^2 + 17^2$	$3^2 + 9^2 + 19^2$	$1^2 + 3^2 + 21^2$
			$26^2 - 15^2$	$226^2 - 225^2$	$3 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1!$	
452	111 000 100 121202	$2^2 \cdot 113$	$14^2 + 16^2$	$8^2 + 8^2 + 18^2$	$4^2 + 6^2 + 20^2$	$114^2 - 112^2$
						$3 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
453	111 000 101 121210	$3 \cdot 151$	$1^2 + 14^2 + 16^2$	$8^2 + 10^2 + 17^2$	$2^2 + 7^2 + 20^2$	$77^2 - 74^2$
			$227^2 - 226^2$	$3 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$		

(continued)

Table III (continued)

454	111 000 110 121211	2·227	$2^2 + 15^2 + 15^2$	$7^2 + 9^2 + 18^2$	$3^2 + 11^2 + 18^2$	$2^2 + 3^2 + 21^2$
				$3 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$		
455	111 000 111 121212	5·7·13	$24^2 - 11^2$	$36^2 - 29^2$	$48^2 - 43^2$	$228^2 - 227^2$ $\binom{15}{3}$
				$3 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$		
456	111 001 000 121220	$2^3 \cdot 3 \cdot 19$	$8^2 + 14^2 + 14^2$	$10^2 + 10^2 + 16^2$	$2^2 + 14^2 + 16^2$	$25^2 - 13^2$
			$41^2 - 35^2$	$59^2 - 55^2$	$115^2 - 113^2$	$3 \cdot 5! + 4 \cdot 4!$
457	111 001 001 121221	prime	$4^2 + 21^2$	$12^2 + 12^2 + 13^2$	$6^2 + 14^2 + 15^2$	$229^2 - 228^2$
				$3 \cdot 5! + 4 \cdot 4! + 1!$		
458	111 001 010 121222	2·229	$13^2 + 17^2$	$8^2 + 13^2 + 15^2$	$9^2 + 11^2 + 16^2$	$5^2 + 12^2 + 17^2$
			$4^2 + 9^2 + 19^2$	$3^2 + 7^2 + 20^2$	$1^2 + 4^2 + 21^2$	$3 \cdot 5! + 4 \cdot 4! + 1 \cdot 2!$
459	111 001 011 122000	$3^3 \cdot 17$	$11^2 + 13^2 + 13^2$	$3^2 + 15^2 + 15^2$	$7^2 + 11^2 + 17^2$	$1^2 + 13^2 + 17^2$
			$7^2 + 7^2 + 19^2$	$3^2 + 3^2 + 21^2$	$22^2 - 5^2$	$30^2 - 21^2$
			$230^2 - 229^2$	$3 \cdot 5! + 4 \cdot 4! + 1 \cdot 2! + 1!$	$78^2 - 75^2$	
460	111 001 100 122001	$2^2 \cdot 5 \cdot 23$	$6^2 + 10^2 + 18^2$	$28^2 - 18^2$	$116^2 - 114^2$	$3 \cdot 5! + 4 \cdot 4! + 2 \cdot 2!$
461	111 001 101 122002	prime	$10^2 + 19^2$	$11^2 + 12^2 + 14^2$	$6^2 + 13^2 + 16^2$	$3^2 + 14^2 + 16^2$
			$4^2 + 11^2 + 18^2$	$6^2 + 8^2 + 19^2$	$5^2 + 6^2 + 20^2$	$2^2 + 4^2 + 21^2$
				$231^2 - 230^2$		
				$3 \cdot 5! + 4 \cdot 4! + 2 \cdot 2! + 1!$		
462	111 001 110 122010	2·3·7·11	$2^2 + 13^2 + 17^2$	$1^2 + 10^2 + 19^2$	$\binom{11}{5}$	$3 \cdot 5! + 4 \cdot 4! + 1 \cdot 3!$
		$\frac{8}{9}^{(7)}$				
463	111 001 111 122011	prime	$232^2 - 231^2$	$3 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1!$		
464	111 010 000 122012	$2^4 \cdot 29$	$8^2 + 20^2$	$8^2 + 12^2 + 16^2$	$33^2 - 25^2$	$60^2 - 56^2$
				$117^2 - 115^2$		
			$3 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$			
465	111 010 001 122020	$3 \cdot 5 \cdot 31$	$\sum_{n=1}^{30} n$	$10^2 + 13^2 + 14^2$	$2^2 + 10^2 + 19^2$	$4^2 + 7^2 + 20^2$
			$1^2 + 8^2 + 20^2$	$23^2 - 8^2$	$49^2 - 44^2$	$79^2 - 76^2$
				$233^2 - 232^2$	$\binom{31}{2}$	
				$3 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$		
466	111 010 010 122021	2·233	$5^2 + 21^2$	$4^2 + 15^2 + 15^2$	$3^2 + 4^2 + 21^2$	$5^3 + 5^3 + 6^3$
				$3 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$		
467	111 010 011 122022	prime	$11^2 + 11^2 + 15^2$	$3^2 + 13^2 + 17^2$	$5^2 + 9^2 + 19^2$	$1^2 + 5^2 + 21^2$
			$234^2 - 233^2$	$3 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$		
468	111 010 100 122100	$2^2 \cdot 3^2 \cdot 13$	$12^2 + 18^2$	$4^2 + 14^2 + 16^2$	$2^2 + 8^2 + 20^2$	$5^3 + 7^3$
			$22^2 - 4^2$	$42^2 - 36^2$	$118^2 - 116^2$	$3 \cdot 5! + 4 \cdot 4! + 2 \cdot 3!$
469	111 010 101 122101	7·67	$10^2 + 12^2 + 15^2$	$6^2 + 12^2 + 17^2$	$8^2 + 9^2 + 18^2$	$1^2 + 12^2 + 18^2$
			$1^3 + 5^3 + 7^3$	$37^2 - 30^2$	$235^2 - 234^2$	$13^3 - 12^3$
				$3 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1!$		

(continued)

Table III (continued)

470	111 010 110 122102	$2 \cdot 5 \cdot 47$	$7^2 + 14^2 + 15^2$	$9^2 + 10^2 + 17^2$	$5^2 + 11^2 + 18^2$	$3^2 + 10^2 + 19^2$
			$2^2 + 5^2 + 21^2$	$3 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$		
471	111 010 111 122110	$3 \cdot 157$	$4^3 + 4^3 + 7^3$	$80^2 - 77^2$	$236^2 - 235^2$	
			$3 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$			
472	111 011 000 122111	$2^3 \cdot 59$	$2^2 + 12^2 + 18^2$	$6^2 + 6^2 + 20^2$	$61^2 - 57^2$	$119^2 - 117^2$
			$3 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$			
473	111 011 001 122112	$11 \cdot 43$	$9^2 + 14^2 + 14^2$	$7^2 + 10^2 + 18^2$	$3^2 + 8^2 + 20^2$	$4^2 + 4^2 + 21^2$
			$27^2 - 16^2$	$237^2 - 236^2$	$3 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$	
474	111 011 010 122120	$2 \cdot 3 \cdot 79$	$7^2 + 13^2 + 16^2$	$8^2 + 11^2 + 17^2$	$4^2 + 13^2 + 17^2$	$7^2 + 8^2 + 19^2$
			$5^2 + 7^2 + 20^2$	$3 \cdot 5! + 4 \cdot 4! + 3 \cdot 3!$		
475	111 011 011 122121	$5^2 \cdot 19$	$9^2 + 13^2 + 15^2$	$5^2 + 15^2 + 15^2$	$3^2 + 5^2 + 21^2$	$22^2 - 3^2$
			$50^2 - 45^2$	$238^2 - 237^2$	$3 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1!$	
476	111 011 100 122122	$2^2 \cdot 7 \cdot 17$	$2^3 + 5^3 + 7^3$	$24^2 - 10^2$	$120^2 - 118^2$	$3 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
477	111 011 101 122200	$3^2 \cdot 53$	$6^2 + 21^2$	$10^2 + 11^2 + 16^2$	$5^2 + 14^2 + 16^2$	$3^2 + 12^2 + 18^2$
			$4^2 + 10^2 + 19^2$	$31^2 - 22^2$	$81^2 - 78^2$	$239^2 - 238^2$
			$3 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$			
478	111 011 110 122201	$2 \cdot 239$	$6^2 + 9^2 + 19^2$	$1^2 + 6^2 + 21^2$	$3 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$	$r(26)$
479	111 011 111 122202	prime	$240^2 - 239^2$	$3 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$		
480	111 100 000 122210	$2^5 \cdot 3 \cdot 5$	$4^2 + 8^2 + 20^2$	$22^2 - 2^2$	$23^2 - 7^2$	$26^2 - 14^2$
			$34^2 - 26^2$	$43^2 - 37^2$	$62^2 - 58^2$	$121^2 - 119^2$
					$4 \cdot 5!$	$29^2 - 19^2$
481	111 100 001 122211	$13 \cdot 37$	$15^2 + 16^2$	$9^2 + 20^2$	$9^2 + 12^2 + 16^2$	$6^2 + 11^2 + 18^2$
			$2^2 + 6^2 + 21^2$	$25^2 - 12^2$	$241^2 - 240^2$	$4 \cdot 5! + 1!$
482	111 100 010 122212	$2 \cdot 241$	$11^2 + 19^2$	$12^2 + 13^2 + 13^2$	$1^2 + 15^2 + 16^2$	$7^2 + 12^2 + 17^2$
			$1^2 + 9^2 + 20^2$	$4^2 + 5^2 + 21^2$	$4 \cdot 5! + 1 \cdot 2!$	
483	111 100 011 122220	$3 \cdot 7 \cdot 23$	$5^2 + 13^2 + 17^2$	$1^2 + 11^2 + 19^2$	$22^2 - 1^2$	$38^2 - 31^2$
			$82^2 - 79^2$	$242^2 - 241^2$	$4 \cdot 5! + 1 \cdot 2! + 1!$	
484	111 100 100 122221	$2^2 \cdot 11^2$	22^2	$12^2 + 12^2 + 14^2$	$4^2 + 12^2 + 18^2$	$122^2 - 120^2$
			$4 \cdot 5! + 2 \cdot 2!$			
485	111 100 101 122222	$5 \cdot 97$	$14^2 + 17^2$	$1^2 + 22^2$	$8^2 + 14^2 + 15^2$	$2^2 + 15^2 + 16^2$
			$6^2 + 7^2 + 20^2$	$2^2 + 9^2 + 20^2$	$51^2 - 46^2$	$243^2 - 242^2$
			$4 \cdot 5! + 2 \cdot 2! + 1!$			$8^3 - 3^3$

(continued)

Table III (continued)

486	111 100 110 200000	$2 \cdot 3^5$ $3^5 + 3^5$ $11^2 + 13^2 + 14^2$ $6^2 + 15^2 + 15^2$ $1^2 + 14^2 + 17^2$ $9^2 + 9^2 + 18^2$ $5^2 + 10^2 + 19^2$ $2^2 + 11^2 + 19^2$ $3^2 + 6^2 + 21^2$ $1^2 + 1^2 + 22^2$ $4 \cdot 5! + 1 \cdot 3!$
487	111 100 111 2000011	prime $244^2 - 243^2$ $4 \cdot 5! + 1 \cdot 3! + 1!$
488	111 101 000 200002	$2^3 \cdot 61$ $2^2 + 22^2$ $6^2 + 14^2 + 16^2$ $8^2 + 10^2 + 18^2$ $63^2 - 59^2$ $123^2 - 121^2$ $10^3 - 8^3$ $4 \cdot 5! + 1 \cdot 3! + 1 \cdot 2!$
489	111 101 001 200010	$3 \cdot 163$ $8^2 + 13^2 + 16^2$ $10^2 + 10^2 + 17^2$ $2^2 + 14^2 + 17^2$ $8^2 + 8^2 + 19^2$ $5^2 + 8^2 + 20^2$ $1^2 + 2^2 + 22^2$ $83^2 - 80^2$ $245^2 - 244^2$ $4 \cdot 5! + 1 \cdot 3! + 1 \cdot 2! + 1!$
490	111 101 010 200011	$2 \cdot 5 \cdot 7^2$ $7^2 + 21^2$ $11^2 + 12^2 + 15^2$ $3^2 + 15^2 + 16^2$ $3^2 + 9^2 + 20^2$ $4 \cdot 5! + 1 \cdot 3! + 2 \cdot 2!$ p(19)
491	111 101 011 200012	prime $9^2 + 11^2 + 17^2$ $7^2 + 9^2 + 19^2$ $3^2 + 11^2 + 19^2$ $5^2 + 5^2 + 21^2$ $1^2 + 7^2 + 21^2$ $246^2 - 245^2$ $4 \cdot 5! + 1 \cdot 3! + 2 \cdot 2! + 1!$
492	111 101 100 200020	$2^2 \cdot 3 \cdot 41$ $10^2 + 14^2 + 14^2$ $2^2 + 2^2 + 22^2$ $44^2 - 38^2$ $124^2 - 122^2$ $4 \cdot 5! + 2 \cdot 3!$
493	111 101 101 200021	$17 \cdot 29$ $13^2 + 18^2$ $3^2 + 22^2$ $5^2 + 12^2 + 18^2$ $4^2 + 6^2 + 21^2$ $23^2 - 6^2$ $247^2 - 246^2$ $4 \cdot 5! + 2 \cdot 3! + 1!$
494	111 101 110 200022	$2 \cdot 13 \cdot 19$ $10^2 + 13^2 + 15^2$ $6^2 + 13^2 + 17^2$ $3^2 + 14^2 + 17^2$ $7^2 + 11^2 + 18^2$ $1^2 + 13^2 + 18^2$ $2^2 + 7^2 + 21^2$ $1^2 + 3^2 + 22^2$ $4 \cdot 5! + 2 \cdot 3! + 1 \cdot 2!$
495	111 101 111 200100	$3^2 \cdot 5 \cdot 11$ $3^3 + 5^3 + 7^3$ $24^2 - 9^2$ $28^2 - 17^2$ $32^2 - 23^2$ $52^2 - 47^2$ $84^2 - 81^2$ $248^2 - 247^2$ $\binom{12}{4}$ $4 \cdot 5! + 2 \cdot 3! + 1 \cdot 2! + 1!$
496	111 110 000 200101	$2^4 \cdot 31$ $1 + 2 + 4 + 8 + 16 + 31 + 62 + 124 + 248$ $\sum_{n=1}^{31} n$ $4^3 + 6^3 + 6^3$ $35^2 - 27^2$ $64^2 - 60^2$ $125^2 - 123^2$ $\binom{32}{2}$ perfect(46) $4 \cdot 5! + 2 \cdot 3! + 2 \cdot 2!$
497	111 110 001 200102	$7 \cdot 71$ $4^2 + 15^2 + 16^2$ $8^2 + 12^2 + 17^2$ $2^2 + 13^2 + 18^2$ $6^2 + 10^2 + 19^2$ $4^2 + 9^2 + 20^2$ $2^2 + 3^2 + 22^2$ $39^2 - 32^2$ $249^2 - 248^2$ $4 \cdot 5! + 2 \cdot 3! + 2 \cdot 2! + 1!$
498	111 110 010 200110	$2 \cdot 3 \cdot 83$ $11^2 + 11^2 + 16^2$ $4^2 + 11^2 + 19^2$ $7^2 + 7^2 + 20^2$ $4 \cdot 5! + 3 \cdot 3!$
499	111 110 011 200111	prime $7^2 + 15^2 + 15^2$ $3^2 + 7^2 + 21^2$ $250^2 - 249^2$ $4 \cdot 5! + 3 \cdot 3! + 1!$
500	111 110 100 200112	$2^2 \cdot 5^3$ $10^2 + 20^2$ $4^2 + 22^2$ $10^2 + 12^2 + 16^2$ $6^2 + 8^2 + 20^2$ $30^2 - 20^2$ $126^2 - 124^2$ $4 \cdot 5! + 3 \cdot 3! + 1 \cdot 2!$

(continued)

Table III (continued)

501	111 110 101 200120	3·167 $85^2 - 82^2$	$7^2 + 14^2 + 16^2$ $251^2 - 250^2$	$4^2 + 14^2 + 17^2$ $4 \cdot 5! + 3 \cdot 3! + 1 \cdot 2! + 1!$	$1^2 + 10^2 + 20^2$	$1^2 + 4^2 + 22^2$
502	111 110 110 200121	2·251 $4 \cdot 5! + 3 \cdot 3! + 2 \cdot 2!$	$9^2 + 14^2 + 15^2$	$3^2 + 13^2 + 18^2$	$5^2 + 6^2 + 21^2$	$3^2 + 3^2 + 22^2$
503	111 110 111 200122	prime $4 \cdot 5! + 3 \cdot 3! + 2 \cdot 2! + 1!$	$252^2 - 251^2$			
504	111 111 000 200200	$2^3 \cdot 3^2 \cdot 7$ $25^2 - 11^2$ $4 \cdot 5! + 1 \cdot 4!$	$6^2 + 12^2 + 18^2$ $27^2 - 15^2$	$2^2 + 10^2 + 20^2$ $45^2 - 39^2$	$2^2 + 4^2 + 22^2$ $65^2 - 61^2$	$23^2 - 5^2$ $127^2 - 125^2$ $8^3 - 2^3$
505	111 111 001 200201	5·101 $4 \cdot 5! + 1 \cdot 4! + 1!$	$12^2 + 19^2$	$8^2 + 21^2$	$9^2 + 10^2 + 18^2$	$53^2 - 48^2$ $253^2 - 252^2$
506	111 111 010 200202	2·11·23 $5^2 + 9^2 + 20^2$	$9^2 + 13^2 + 16^2$ $4^2 + 7^2 + 21^2$	$5^2 + 15^2 + 16^2$ $1^2 + 8^2 + 21^2$	$8^2 + 9^2 + 19^2$ $\sum_1^{11} n^2$	$1^2 + 12^2 + 19^2$ $4 \cdot 5! + 1 \cdot 4! + 1 \cdot 2!$
507	111 111 011 200210	3·13 ² $86^2 - 83^2$	$13^2 + 13^2 + 13^2$ $254^2 - 253^2$	$7^2 + 13^2 + 17^2$ $4 \cdot 5! + 1 \cdot 4! + 1 \cdot 2! + 1!$	$5^2 + 11^2 + 19^2$	$26^2 - 13^2$
508	111 111 100 200211	$2^2 \cdot 127$	$128^2 - 126^2$	$4 \cdot 5! + 1 \cdot 4! + 2 \cdot 2!$		
509	111 111 101 200212	prime $2^2 + 12^2 + 19^2$ $255^2 - 254^2$	$5^2 + 22^2$ $4 \cdot 5! + 1 \cdot 4! + 2 \cdot 2! + 1!$	$12^2 + 13^2 + 14^2$	$8^2 + 11^2 + 18^2$ $2^2 + 8^2 + 21^2$	$4^2 + 13^2 + 18^2$ $3^2 + 4^2 + 22^2$
510	111 111 110 200220	2·3·5·17 $1^2 + 5^2 + 22^2$	$10^2 + 11^2 + 17^2$ $4 \cdot 5! + 1 \cdot 4! + 1 \cdot 3!$	$5^2 + 14^2 + 17^2$ $4 \cdot 5! + 1 \cdot 4! + 1 \cdot 3!$	$7^2 + 10^2 + 19^2$	
511	111 111 111 200221	7·73 $q_{10}^{(2)}$	$40^2 - 33^2$ $256^2 - 255^2$	$8^3 - 1^3$	$4 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1!$	
512	1 000 000 000 200222	2^9 $66^2 - 62^2$	8^3 $16^2 + 16^2$ $129^2 - 127^2$	$4^4 + 4^4$ $4 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$2^8 + 2^8$ $24^2 - 8^2$ $q(34)$	$36^2 - 28^2$
513	1 000 000 001 201000	$3^3 \cdot 19$ $6^2 + 6^2 + 21^2$ $33^2 - 24^2$ $4 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$	$11^2 + 14^2 + 14^2$ $2^2 + 5^2 + 22^2$ $87^2 - 84^2$	$12^2 + 12^2 + 15^2$ $1^4 + 4^4 + 4^4$ $257^2 - 256^2$	$1^2 + 16^2 + 16^2$ $1^9 + 2^9$ $9^3 - 6^3$	$7^2 + 8^2 + 20^2$ $23^2 - 4^2$ $1^3 + 8^3$
514	1 000 000 010 201001	2·257 $3^2 + 8^2 + 21^2$	$15^2 + 17^2$ $1^3 + 1^3 + 8^3$	$8^2 + 15^2 + 15^2$ $4 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$	$9^2 + 12^2 + 17^2$	$3^2 + 12^2 + 19^2$
515	1 000 000 011 201002	5·103 $258^2 - 257^2$	$11^2 + 13^2 + 15^2$ $4 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$	$1^2 + 15^2 + 17^2$	$5^2 + 7^2 + 21^2$	$54^2 - 49^2$

(continued)

Table III (continued)

516	1 000 000 100 201010	$2^2 \cdot 3 \cdot 43$ $46^2 - 40^2$	$8^2 + 14^2 + 16^2$ $130^2 - 128^2$	$2^2 + 16^2 + 16^2$ $4 \cdot 5! + 1 \cdot 4! + 2 \cdot 3!$	$4^2 + 10^2 + 20^2$	$4^2 + 4^2 + 22^2$
517	1 000 000 101 201011	$11 \cdot 47$ $259^2 - 258^2$	$6^2 + 15^2 + 16^2$ $4 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1!$	$7^2 + 12^2 + 18^2$	$6^2 + 9^2 + 20^2$	$29^2 - 18^2$
518	1 000 000 110 201012	$2 \cdot 7 \cdot 37$ $2^5 + 3^5 + 3^5$	$2^2 + 15^2 + 17^2$ $4 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$	$5^2 + 13^2 + 18^2$	$6^2 + 11^2 + 19^2$	$3^2 + 5^2 + 22^2$
519	1 000 000 111 201020	$3 \cdot 173$	$88^2 - 85^2$ $260^2 - 259^2$	$4 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$		
520	1 000 001 000 201021	$2^3 \cdot 5 \cdot 13$ $67^2 - 63^2$	$14^2 + 18^2$ $131^2 - 129^2$	$6^2 + 22^2$ $4 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$	$2^3 + 8^3$ $23^2 - 3^2$	$31^2 - 21^2$
521	1 000 001 001 201022	prime $6^2 + 14^2 + 17^2$ $1^2 + 6^2 + 22^2$	$11^2 + 20^2$ $1^2 + 14^2 + 18^2$ $1^3 + 2^3 + 8^3$	$10^2 + 14^2 + 15^2$ $4^2 + 12^2 + 19^2$ $261^2 - 260^2$	$11^2 + 12^2 + 16^2$ $4^2 + 8^2 + 21^2$ $4 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$	$3^2 + 16^2 + 16^2$
522	1 000 001 010 201100	$2 \cdot 3^2 \cdot 29$ $9^2 + 21^2$	$8^2 + 13^2 + 17^2$	$1^2 + 11^2 + 20^2$	$4 \cdot 5! + 1 \cdot 4! + 3 \cdot 3!$	
523	1 000 001 011 201101	prime $4 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1!$	$3^2 + 15^2 + 17^2$	$9^2 + 9^2 + 19^2$	$1^2 + 9^2 + 21^2$	$262^2 - 261^2$
524	1 000 001 100 201102	$2^2 \cdot 131$ $4 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$	$10^2 + 10^2 + 18^2$	$2^2 + 14^2 + 18^2$	$2^2 + 6^2 + 22^2$	$132^2 - 130^2$
525	1 000 001 101 201110	$3 \cdot 5^2 \cdot 7$ $4^2 + 5^2 + 22^2$ $263^2 - 262^2$	$10^2 + 13^2 + 16^2$ $23^2 - 2^2$ $4 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$	$8^2 + 10^2 + 19^2$ $25^2 - 10^2$	$5^2 + 10^2 + 20^2$ $41^2 - 34^2$ $55^2 - 50^2$	$2^2 + 11^2 + 20^2$ $89^2 - 86^2$
526	1 000 001 110 201111	$2 \cdot 263$ $4 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$	$9^2 + 11^2 + 18^2$	$6^2 + 7^2 + 21^2$	$2^2 + 9^2 + 21^2$	
527	1 000 001 111 201112	$17 \cdot 31$ $24^2 - 7^2$ $133^2 - 131^2$	$264^2 - 263^2$	$4 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$		
528	1 000 010 000 201120	$2^4 \cdot 3 \cdot 11$ $2^4 + 4^4 + 4^4$ $133^2 - 131^2$	$\sum_{n=1}^{32} n$ $23^2 - 1^2$ $(\binom{33}{2})$	$4^2 + 16^2 + 16^2$ $28^2 - 16^2$ $4 \cdot 5! + 2 \cdot 4!$	$8^2 + 8^2 + 20^2$ $37^2 - 29^2$	$2^3 + 2^3 + 8^3$ $47^2 - 41^2$ $68^2 - 64^2$
529	1 000 010 001 201121	23^2 $4 \cdot 5! + 2 \cdot 4! + 1!$	$6^2 + 13^2 + 18^2$	$3^2 + 14^2 + 18^2$	$3^2 + 6^2 + 22^2$	$265^2 - 264^2$
530	1 000 010 010 201122	$2 \cdot 5 \cdot 53$ $5^2 + 12^2 + 19^2$ $4 \cdot 5! + 2 \cdot 4! + 1 \cdot 2!$	$13^2 + 19^2$ $7^2 + 9^2 + 20^2$	$1^2 + 23^2$ $7^2 + 9^2 + 20^2$	$7^2 + 15^2 + 16^2$ $3^2 + 11^2 + 20^2$	$4^2 + 15^2 + 17^2$ $5^2 + 8^2 + 21^2$

(continued)

Table III (continued)

531	1 000 010 011 201200	$3^2 \cdot 59$	$9^2 + 15^2 + 15^2$	$11^2 + 11^2 + 17^2$	$7^2 + 11^2 + 19^2$	$1^2 + 13^2 + 19^2$
		$3^2 + 9^2 + 21^2$	$1^2 + 1^2 + 23^2$	$34^2 - 25^2$	$90^2 - 87^2$	$266^2 - 265^2$
		$4 \cdot 5! + 2 \cdot 4! + 1 \cdot 2! + 1!$				
532	1 000 010 100 201201	$2^2 \cdot 7 \cdot 19$	$8^2 + 12^2 + 18^2$	$4^3 + 5^3 + 7^3$	$26^2 - 12^2$	$134^2 - 132^2$
		$4 \cdot 5! + 2 \cdot 4! + 2 \cdot 2!$				
533	1 000 010 101 201202	$13 \cdot 41$	$7^2 + 22^2$	$2^2 + 23^2$	$9^2 + 14^2 + 16^2$	$10^2 + 12^2 + 17^2$
		$27^2 - 14^2$	$4 \cdot 5! + 2 \cdot 4! + 2 \cdot 2! + 1!$			
534	1 000 010 110 201210	$2 \cdot 3 \cdot 89$	$13^2 + 13^2 + 14^2$	$7^2 + 14^2 + 17^2$	$2^2 + 13^2 + 19^2$	$5^2 + 5^2 + 22^2$
		$1^2 + 7^2 + 22^2$	$1^2 + 2^2 + 23^2$	$4 \cdot 5! + 2 \cdot 4! + 1 \cdot 3!$		
535	1 000 010 111 201211	$5 \cdot 107$	$56^2 - 51^2$	$268^2 - 267^2$	$4 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1!$	
536	1 000 011 000 201212	$2^3 \cdot 67$	$12^2 + 14^2 + 14^2$	$4^2 + 14^2 + 18^2$	$6^2 + 10^2 + 20^2$	$4^2 + 6^2 + 22^2$
		$69^2 - 65^2$	$135^2 - 133^2$	$4 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$		
537	1 000 011 001 201220	$3 \cdot 179$	$5^2 + 16^2 + 16^2$	$4^2 + 11^2 + 20^2$	$2^2 + 7^2 + 22^2$	$2^2 + 2^2 + 23^2$
		$91^2 - 88^2$	$269^2 - 268^2$	$4 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$		
538	1 000 011 010 201221	$2 \cdot 269$	$3^2 + 23^2$	$12^2 + 13^2 + 15^2$	$4^2 + 9^2 + 21^2$	
		$4 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$				
539	1 000 011 011 201222	$7^2 \cdot 11$	$9^2 + 13^2 + 17^2$	$5^2 + 15^2 + 17^2$	$3^2 + 13^2 + 19^2$	$7^2 + 7^2 + 21^2$
		$1^2 + 3^2 + 23^2$	$3^3 + 8^3$	$30^2 - 19^2$	$42^2 - 35^2$	$270^2 - 269^2$
		$4 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$				
540	1 000 011 100 202000	$2^2 \cdot 3^3 \cdot 5$	$1^3 + 3^3 + 8^3$	$24^2 - 6^2$	$32^2 - 22^2$	$48^2 - 42^2$
		$136^2 - 134^2$				
		$4 \cdot 5! + 2 \cdot 4! + 2 \cdot 3!$				
541	1 000 011 101 202001	prime	$10^2 + 21^2$	$6^2 + 12^2 + 19^2$	$6^2 + 8^2 + 21^2$	$271^2 - 270^2$
		$4 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1!$				
542	1 000 011 110 202002	$2 \cdot 271$	$11^2 + 14^2 + 15^2$	$7^2 + 13^2 + 18^2$	$9^2 + 10^2 + 19^2$	$1^2 + 10^2 + 21^2$
		$3^2 + 7^2 + 22^2$	$2^2 + 3^2 + 23^2$	$4 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$		
543	1 000 011 111 202010	$3 \cdot 181$	$92^2 - 89^2$	$272^2 - 271^2$	$4 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$	
544	1 000 100 000 202011	$2^5 \cdot 17$	$12^2 + 20^2$	$12^2 + 12^2 + 16^2$	$25^2 - 9^2$	$38^2 - 30^2$
		$70^2 - 66^2$	$137^2 - 135^2$	$5^4 - 3^4$	$4 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$	
545	1 000 100 001 202012	$5 \cdot 109$	$16^2 + 17^2$	$4^2 + 23^2$	$8^2 + 15^2 + 16^2$	$10^2 + 11^2 + 18^2$
		$5^2 + 14^2 + 18^2$	$8^2 + 9^2 + 20^2$	$1^2 + 12^2 + 20^2$	$2^2 + 10^2 + 21^2$	
		$5^2 + 6^2 + 22^2$	$57^2 - 52^2$	$273^2 - 272^2$	$4 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$	
546	1 000 100 010 202020	$2 \cdot 3 \cdot 7 \cdot 13$	$11^2 + 13^2 + 16^2$	$1^2 + 16^2 + 17^2$	$8^2 + 11^2 + 19^2$	$4^2 + 13^2 + 19^2$
		$5^2 + 11^2 + 20^2$	$1^2 + 4^2 + 23^2$	$4 \cdot 5! + 2 \cdot 4! + 3 \cdot 3!$	$S_9^{(7)}$	

(continued)

Table III (continued)

547	1 000 100 011 202021	prime $14^3 - 13^3$	$5^2 + 9^2 + 21^2$ $4 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1!$	$3^2 + 3^2 + 23^2$	$2^3 + 3^3 + 8^3$	$274^2 - 273^2$
548	1 000 100 100 202022	$2^2 \cdot 137$	$8^2 + 22^2$ $4 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$	$6^2 + 16^2 + 16^2$	$2^2 + 12^2 + 20^2$	$138^2 - 136^2$
549	1 000 100 101 202100	$3^2 \cdot 61$	$15^2 + 18^2$ $7^2 + 10^2 + 20^2$ $93^2 - 90^2$	$8^2 + 14^2 + 17^2$ $4^2 + 7^2 + 22^2$ $275^2 - 274^2$	$2^2 + 16^2 + 17^2$ $1^2 + 8^2 + 22^2$ $4 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$	$9^2 + 12^2 + 18^2$ $2^2 + 4^2 + 23^2$ $35^2 - 26^2$
550	1 000 100 110 202101	$2 \cdot 5^2 \cdot 11$	$10^2 + 15^2 + 15^2$ $4 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$	$6^2 + 15^2 + 17^2$	$1^2 + 15^2 + 18^2$	$3^2 + 10^2 + 21^2$
551	1 000 100 111 202102	$19 \cdot 29$	$24^2 - 5^2$ $276^2 - 275^2$	$276^2 - 275^2$	$4 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$	
552	1 000 101 000 202110	$2^3 \cdot 3 \cdot 23$	$10^2 + 14^2 + 16^2$ $71^2 - 67^2$	$2^2 + 8^2 + 22^2$ $139^2 - 137^2$	$29^2 - 17^2$ $4 \cdot 5! + 3 \cdot 4!$	$49^2 - 43^2$
553	1 000 101 001 202111	$7 \cdot 79$	$2^2 + 15^2 + 18^2$ $4 \cdot 5! + 3 \cdot 4! + 1!$	$3^2 + 12^2 + 20^2$	$43^2 - 36^2$	$277^2 - 276^2$
554	1 000 101 010 202112	$2 \cdot 277$	$5^2 + 23^2$ $7^2 + 8^2 + 21^2$	$11^2 + 12^2 + 17^2$ $3^2 + 4^2 + 23^2$	$3^2 + 16^2 + 17^2$ $4 \cdot 5! + 3 \cdot 4! + 1 \cdot 2!$	$7^2 + 12^2 + 19^2$
555	1 000 101 011 202120	$3 \cdot 5 \cdot 37$	$5^2 + 13^2 + 19^2$ $94^2 - 91^2$	$1^2 + 5^2 + 23^2$ $278^2 - 277^2$	$26^2 - 11^2$ $4 \cdot 5! + 3 \cdot 4! + 1 \cdot 2! + 1!$	$58^2 - 53^2$
556	1 000 101 100 202121	$2^2 \cdot 139$	$6^2 + 14^2 + 18^2$	$6^2 + 6^2 + 22^2$	$140^2 - 138^2$	$4 \cdot 5! + 3 \cdot 4! + 2 \cdot 2!$
557	1 000 101 101 202122	prime	$14^2 + 19^2$ $3^2 + 8^2 + 22^2$	$8^2 + 13^2 + 18^2$ $5^3 + 6^3 + 6^3$	$6^2 + 11^2 + 20^2$ $279^2 - 278^2$	$4^2 + 10^2 + 21^2$ $4 \cdot 5! + 3 \cdot 4! + 2 \cdot 2! + 1!$
558	1 000 101 110 202200	$2 \cdot 3^2 \cdot 31$	$10^2 + 13^2 + 17^2$ $5^2 + 7^2 + 22^2$	$3^2 + 15^2 + 18^2$ $2^2 + 5^2 + 23^2$	$1^2 + 14^2 + 19^2$ $4 \cdot 5! + 3 \cdot 4! + 1 \cdot 3!$	$6^2 + 9^2 + 21^2$
559	1 000 101 111 202201	$13 \cdot 43$	$6^3 + 7^3$ $28^2 - 15^2$	$28^2 - 15^2$ $280^2 - 279^2$	$4 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1!$	
560	1 000 110 000 202202	$2^4 \cdot 5 \cdot 7$	$4^2 + 12^2 + 20^2$ $39^2 - 31^2$	$1^3 + 6^3 + 7^3$ $72^2 - 68^2$ $141^2 - 139^2$	$24^2 - 4^2$ $\binom{16}{3}$	$27^2 - 13^2$ $33^2 - 23^2$ $4 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$
561	1 000 110 001 202210	$3 \cdot 11 \cdot 17$	$\sum_1^{33} n$ $10^2 + 10^2 + 19^2$ $95^2 - 92^2$	$13^2 + 14^2 + 14^2$ $2^2 + 14^2 + 19^2$ $281^2 - 280^2$	$7^2 + 16^2 + 16^2$ $4^2 + 4^2 + 23^2$ $\binom{34}{2}$	$4^2 + 16^2 + 17^2$ $25^2 - 8^2$ $31^2 - 20^2$ $4 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$
562	1 000 110 010 202211	$2 \cdot 281$	$11^2 + 21^2$ $4 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$	$9^2 + 15^2 + 16^2$	$9^2 + 9^2 + 20^2$	

(continued)

Table III (continued)

563	1 000 110 011 202212	prime $3^2 + 5^2 + 23^2$	$13^2 + 13^2 + 15^2$ $282^2 - 281^2$	$7^2 + 15^2 + 17^2$ $4 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$	$9^2 + 11^2 + 19^2$	$1^2 + 11^2 + 21^2$
564	1 000 110 100 202220	$2^2 \cdot 3 \cdot 4 \cdot 7$	$8^2 + 10^2 + 20^2$ $4 \cdot 5! + 3 \cdot 4! + 2 \cdot 3!$	$4^2 + 8^2 + 22^2$	$50^2 - 44^2$	$142^2 - 140^2$
565	1 000 110 101 202221	5·113 $59^2 - 54^2$	$9^2 + 22^2$ $283^2 - 282^2$	$6^2 + 23^2$ $4 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1!$	$12^2 + 14^2 + 15^2$	$4^2 + 15^2 + 18^2$
566	1 000 110 110 202222	2·283 $5^2 + 10^2 + 21^2$ $3^3 + 3^3 + 8^3$	$9^2 + 14^2 + 17^2$ $2^2 + 11^2 + 21^2$ $4 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$	$11^2 + 11^2 + 18^2$	$6^2 + 13^2 + 19^2$	$3^2 + 14^2 + 19^2$ $1^2 + 9^2 + 22^2$ $1^2 + 6^2 + 23^2$
567	1 000 110 111 210000	$3^4 \cdot 7$ $284^2 - 283^2$	$2^3 + 6^3 + 7^3$ $4 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$	$24^2 - 3^2$	$36^2 - 27^2$	$44^2 - 37^2$ $96^2 - 93^2$
568	1 000 111 000 210001	$2^3 \cdot 7 \cdot 1$ $4 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$	$10^2 + 12^2 + 18^2$	$73^2 - 69^2$	$143^2 - 141^2$	
569	1 000 111 001 210002	prime $5^2 + 12^2 + 20^2$ $2^2 + 6^2 + 23^2$	$13^2 + 20^2$ $8^2 + 8^2 + 21^2$ $285^2 - 284^2$	$12^2 + 13^2 + 16^2$ $6^2 + 7^2 + 22^2$ $4 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$	$7^2 + 14^2 + 18^2$ $2^2 + 9^2 + 22^2$	$8^2 + 12^2 + 19^2$
570	1 000 111 010 210010	$2 \cdot 3 \cdot 5 \cdot 19$ $4^2 + 5^2 + 23^2$	$5^2 + 16^2 + 17^2$ $4 \cdot 5! + 3 \cdot 4! + 3 \cdot 3!$	$7^2 + 11^2 + 20^2$	$1^2 + 13^2 + 20^2$	
571	1 000 111 011 210011	prime $4 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1!$	$11^2 + 15^2 + 15^2$	$7^2 + 9^2 + 21^2$	$3^2 + 11^2 + 21^2$	$286^2 - 285^2$
572	1 000 111 100 210012	$2^2 \cdot 11 \cdot 13$ 210012	$24^2 - 2^2$ $144^2 - 142^2$	$4 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$		
573	1 000 111 101 210020	3·191 $97^2 - 94^2$	$11^2 + 14^2 + 16^2$ $287^2 - 286^2$	$4^2 + 14^2 + 19^2$ $4 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$	$2^2 + 13^2 + 20^2$	$5^2 + 8^2 + 22^2$
574	1 000 111 110 210021	$2 \cdot 7 \cdot 4 \cdot 1$ $4 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$	$9^2 + 13^2 + 18^2$	$5^2 + 15^2 + 18^2$	$3^2 + 9^2 + 22^2$	$3^2 + 6^2 + 23^2$
575	1 000 111 111 210022	$5^2 \cdot 23$ 210022	$24^2 - 1^2$ $60^2 - 55^2$	$288^2 - 287^2$	$4 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$	
576	1 001 000 000 210100	$2^6 \cdot 3^2$ $30^2 - 18^2$	24^2 $40^2 - 32^2$	$8^2 + 16^2 + 16^2$ $51^2 - 45^2$	$4^3 + 8^3$ $74^2 - 70^2$	$25^2 - 7^2$ $145^2 - 143^2$ $4 \cdot 5! + 4 \cdot 4!$
577	1 001 000 001 210101	prime $289^2 - 288^2$	$1^2 + 24^2$ $4 \cdot 5! + 4 \cdot 4! + 1!$	$12^2 + 12^2 + 17^2$	$6^2 + 10^2 + 21^2$	$1^3 + 4^3 + 8^3$

(continued)

Table III (continued)

578	1 001 000 010 210102	$2 \cdot 17^2$	$17^2 + 17^2$	$7^2 + 23^2$	$8^2 + 15^2 + 17^2$	$3^2 + 13^2 + 20^2$
		$4^2 + 11^2 + 21^2$	$1^2 + 1^2 + 24^2$	$4 \cdot 5! + 4 \cdot 4! + 1 \cdot 2!$		
579	1 001 000 011 210110	3·193	$11^2 + 13^2 + 17^2$	$1^2 + 17^2 + 17^2$	$7^2 + 13^2 + 19^2$	$5^2 + 5^2 + 23^2$
		$1^2 + 7^2 + 23^2$	$98^2 - 95^2$	$290^2 - 289^2$	$4 \cdot 5! + 4 \cdot 4! + 1 \cdot 2! + 1!$	
580	1 001 000 100 210111	$2^2 \cdot 5 \cdot 29$	$16^2 + 18^2$	$2^2 + 24^2$	$6^2 + 12^2 + 20^2$	$34^2 - 24^2$ $146^2 - 144^2$
		$4 \cdot 5! + 4 \cdot 4! + 2 \cdot 2!$				
581	1 001 000 101 210112	7·83	$10^2 + 15^2 + 16^2$	$6^2 + 16^2 + 17^2$	$1^2 + 16^2 + 18^2$	$9^2 + 10^2 + 20^2$
		$4^2 + 9^2 + 22^2$	$4^2 + 6^2 + 23^2$	$1^2 + 2^2 + 24^2$	$45^2 - 38^2$	$291^2 - 290^2$
		$4 \cdot 5! + 4 \cdot 4! + 2 \cdot 2! + 1!$				
582	1 001 000 110 210120	2·3·97	$2^2 + 17^2 + 17^2$	$10^2 + 11^2 + 19^2$	$5^2 + 14^2 + 19^2$	$7^2 + 7^2 + 22^2$
		$2^2 + 7^2 + 23^2$	$4 \cdot 5! + 4 \cdot 4! + 1 \cdot 3!$			
583	1 001 000 111 210121	11·53	$32^2 - 21^2$	$292^2 - 291^2$	$4 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1!$	
584	1 001 001 000 210122	$2^3 \cdot 73$	$10^2 + 22^2$	$8^2 + 14^2 + 18^2$	$2^2 + 16^2 + 18^2$	$6^2 + 8^2 + 22^2$
		$2^2 + 2^2 + 24^2$	$2^3 + 4^3 + 8^3$	$75^2 - 71^2$	$147^2 - 145^2$	
		$4 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$				
585	1 001 001 001 210200	$3^2 \cdot 5 \cdot 13$	$12^2 + 21^2$	$3^2 + 24^2$	$10^2 + 14^2 + 17^2$	$6^2 + 15^2 + 18^2$
		$8^2 + 11^2 + 20^2$	$4^2 + 13^2 + 20^2$	$1^2 + 10^2 + 22^2$	$27^2 - 12^2$	$29^2 - 16^2$
		$37^2 - 28^2$	$61^2 - 56^2$	$99^2 - 96^2$	$293^2 - 292^2$	$q(35)$
		$4 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1 \cdot 1!$				
586	1 001 001 010 210201	2·293	$15^2 + 19^2$	$9^2 + 12^2 + 19^2$	$8^2 + 9^2 + 21^2$	$1^2 + 12^2 + 21^2$
		$1^2 + 3^2 + 24^2$	$3^3 + 6^3 + 7^3$	$4 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$		
587	1 001 001 011 210202	prime	$3^2 + 17^2 + 17^2$	$1^2 + 15^2 + 19^2$	$5^2 + 11^2 + 21^2$	$3^2 + 7^2 + 23^2$
		$294^2 - 293^2$	$4 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$			
588	1 001 001 100 210210	$2^2 \cdot 3 \cdot 7^2$	$14^2 + 14^2 + 14^2$	$2^2 + 10^2 + 22^2$	$28^2 - 14^2$	$52^2 - 46^2$
		$148^2 - 146^2$	$4 \cdot 5! + 4 \cdot 4! + 2 \cdot 3!$			
589	1 001 001 101 210211	19·31	$11^2 + 12^2 + 18^2$	$3^2 + 16^2 + 18^2$	$2^2 + 12^2 + 21^2$	$2^2 + 3^2 + 24^2$
		$25^2 - 6^2$	$295^2 - 294^2$	$4 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1!$		
590	1 001 001 110 210212	2·5·59	$13^2 + 14^2 + 15^2$	$2^2 + 15^2 + 19^2$	$7^2 + 10^2 + 21^2$	$5^2 + 9^2 + 22^2$
		$5^2 + 6^2 + 23^2$	$4 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$			
591	1 001 001 111 210220	3·197	$100^2 - 97^2$	$296^2 - 295^2$	$4 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$	
592	1 001 010 000 210221	$2^4 \cdot 37$	$4^2 + 24^2$	$41^2 - 33^2$	$76^2 - 72^2$	$149^2 - 147^2$
		$4 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$				

(continued)

Table III (continued)

593	1 001 010 001 210222	prime $8^2 + 23^2$ $7^2 + 12^2 + 20^2$ $3^4 + 4^4 + 4^4$	$9^2 + 16^2 + 16^2$ $3^2 + 10^2 + 22^2$ $297^2 - 296^2$	$10^2 + 13^2 + 18^2$ $1^2 + 4^2 + 24^2$ $4 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$	$6^2 + 14^2 + 19^2$ $5^3 + 5^3 + 7^3$
594	1 001 010 010 211000	$2 \cdot 3^3 \cdot 11$ $8^2 + 13^2 + 19^2$ $1^2 + 8^2 + 23^2$	$12^2 + 15^2 + 15^2$ $5^2 + 13^2 + 20^2$ $3^2 + 3^2 + 24^2$	$13^2 + 13^2 + 16^2$ $3^2 + 12^2 + 21^2$ $4 \cdot 5! + 4 \cdot 4! + 3 \cdot 3!$	$7^2 + 16^2 + 17^2$ $4^2 + 7^2 + 23^2$
595	1 001 010 011 211001	$5 \cdot 7 \cdot 17$ $62^2 - 57^2$	$\sum_{n=1}^{34} n$ $298^2 - 297^2$	$9^2 + 15^2 + 17^2$ $(\binom{35}{2})$ $4 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1!$	$3^2 + 15^2 + 19^2$ $26^2 - 9^2$ $46^2 - 39^2$
596	1 001 010 100 211002	$2^2 \cdot 149$ $150^2 - 148^2$	$14^2 + 20^2$ $4 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$	$12^2 + 14^2 + 16^2$ $4^2 + 16^2 + 18^2$	$2^2 + 4^2 + 24^2$
597	1 001 010 101 211010	$3 \cdot 199$ $299^2 - 298^2$	$1^2 + 14^2 + 20^2$ $4 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$	$7^2 + 8^2 + 22^2$ $2^2 + 8^2 + 23^2$	$101^2 - 98^2$
598	1 001 010 110 211011	$2 \cdot 13 \cdot 23$	$7^2 + 15^2 + 18^2$	$6^2 + 11^2 + 21^2$ $4 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$	
599	1 001 010 111 211012	prime	$300^2 - 299^2$ $4 \cdot 5! + 4 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$		
600	1 001 011 000 211020	$2^3 \cdot 3 \cdot 5^2$ $31^2 - 19^2$	$10^2 + 10^2 + 20^2$ $35^2 - 25^2$	$2^2 + 14^2 + 20^2$ $53^2 - 47^2$	$4^2 + 10^2 + 22^2$ $77^2 - 73^2$ $151^2 - 149^2$ $5 \cdot 5!$
601	1 001 011 001 211021	prime $6^2 + 6^2 + 23^2$	$5^2 + 24^2$ $3^2 + 4^2 + 24^2$	$9^2 + 14^2 + 18^2$ $301^2 - 300^2$	$4^2 + 12^2 + 21^2$ $5 \cdot 5! + 1!$
602	1 001 011 010 211022	$2 \cdot 7 \cdot 43$ $3^2 + 8^2 + 23^2$	$11^2 + 15^2 + 16^2$ $1^2 + 5^2 + 24^2$	$12^2 + 13^2 + 17^2$ $11^3 - 9^3$	$4^2 + 15^2 + 19^2$ $5 \cdot 5! + 1 \cdot 2!$
603	1 001 011 011 211100	$3^2 \cdot 67$ $3^3 + 4^3 + 8^3$	$5^2 + 17^2 + 17^2$ $38^2 - 29^2$	$11^2 + 11^2 + 19^2$ $102^2 - 99^2$	$9^2 + 9^2 + 21^2$ $302^2 - 301^2$ $5 \cdot 5! + 1 \cdot 2! + 1!$
604	1 001 011 100 211101	$2^2 \cdot 151$ $152^2 - 150^2$	$9^3 - 5^3$	$5 \cdot 5! + 2 \cdot 2!$	
605	1 001 011 101 211102	$5 \cdot 11^2$ $3^2 + 14^2 + 20^2$ $303^2 - 302^2$	$11^2 + 22^2$ $8^2 + 10^2 + 21^2$ $5 \cdot 5! + 2 \cdot 2! + 1!$	$5^2 + 16^2 + 18^2$ $2^2 + 5^2 + 24^2$	$10^2 + 12^2 + 19^2$ $33^2 - 22^2$ $6^2 + 13^2 + 20^2$ $63^2 - 58^2$
606	1 001 011 110 211110	$2 \cdot 3 \cdot 101$	$11^2 + 14^2 + 17^2$	$7^2 + 14^2 + 19^2$ $1^2 + 11^2 + 22^2$	$5 \cdot 5! + 1 \cdot 3!$
607	1 001 011 111 211111	prime	$304^2 - 303^2$ $5 \cdot 5! + 1 \cdot 3! + 1!$		

(continued)

Table III (continued)

608	1 001 100 000 211112	$2^5 \cdot 19$ $78^2 - 74^2$	$8^2 + 12^2 + 20^2$ $153^2 - 151^2$	$4^2 + 4^2 + 24^2$ $5 \cdot 5! + 1 \cdot 3! + 1 \cdot 2!$	$27^2 - 11^2$	$42^2 - 34^2$
609	1 001 100 001 211120	$3 \cdot 7 \cdot 29$ $25^2 - 4^2$	$8^2 + 16^2 + 17^2$ $47^2 - 40^2$	$5^2 + 10^2 + 22^2$ $103^2 - 100^2$	$2^2 + 11^2 + 22^2$ $305^2 - 304^2$	$4^2 + 8^2 + 23^2$ $5^4 - 2^4$
610	1 001 100 010 211121	$2 \cdot 5 \cdot 61$	$13^2 + 21^2$	$9^2 + 23^2$	$5^2 + 12^2 + 21^2$	$3^2 + 5^2 + 24^2$
611	1 001 100 011 211122	$13 \cdot 47$	$9^2 + 13^2 + 19^2$	$5^2 + 15^2 + 19^2$	$7^2 + 11^2 + 21^2$	$1^2 + 13^2 + 21^2$
612	1 001 100 100 211200	$2^2 \cdot 3^2 \cdot 17$ $8^2 + 8^2 + 22^2$	$6^2 + 24^2$ $26^2 - 8^2$	$10^2 + 16^2 + 16^2$ $54^2 - 48^2$	$12^2 + 12^2 + 18^2$ $154^2 - 152^2$	$4^2 + 14^2 + 20^2$ $5 \cdot 5! + 2 \cdot 3!$
613	1 001 100 101 211201	prime	$17^2 + 18^2$	$8^2 + 15^2 + 18^2$	$1^2 + 6^2 + 24^2$	$307^2 - 306^2$
614	1 001 100 110 211202	$2 \cdot 307$	$10^2 + 15^2 + 17^2$	$6^2 + 17^2 + 17^2$	$11^2 + 13^2 + 18^2$	$1^2 + 17^2 + 18^2$
615	1 001 100 111 211210	$3 \cdot 5 \cdot 41$	$28^2 - 13^2$	$64^2 - 59^2$	$104^2 - 101^2$	$308^2 - 307^2$
616	1 001 101 000 211211	$2^3 \cdot 7 \cdot 11$ $79^2 - 75^2$	$6^2 + 16^2 + 18^2$ $155^2 - 153^2$	$2^2 + 6^2 + 24^2$ $5 \cdot 5! + 2 \cdot 3! + 2 \cdot 2!$	$25^2 - 3^2$	$29^2 - 15^2$
617	1 001 101 001 211212	prime	$6^2 + 19^2$	$14^2 + 14^2 + 15^2$	$2^2 + 17^2 + 18^2$	$4^2 + 5^2 + 24^2$
618	1 001 101 010 211220	$2 \cdot 3 \cdot 103$	$1^2 + 16^2 + 19^2$	$7^2 + 13^2 + 20^2$	$5^2 + 8^2 + 23^2$	$5 \cdot 5! + 3 \cdot 3!$
619	1 001 101 011 211221	prime	$13^2 + 15^2 + 15^2$	$3^2 + 13^2 + 21^2$	$3^2 + 9^2 + 23^2$	$310^2 - 309^2$
620	1 001 101 100 211222	$2^2 \cdot 5 \cdot 31$	$10^2 + 14^2 + 18^2$	$6^2 + 10^2 + 22^2$	$36^2 - 26^2$	$156^2 - 154^2$
621	1 001 101 101 212000	$3^3 \cdot 23$	$13^2 + 14^2 + 16^2$	$8^2 + 14^2 + 19^2$	$2^2 + 16^2 + 19^2$	$10^2 + 11^2 + 20^2$
622	1 001 101 110 212001	$2 \cdot 311$	$3^2 + 17^2 + 18^2$	$6^2 + 15^2 + 19^2$	$9^2 + 10^2 + 21^2$	$5 \cdot 5! + 3 \cdot 3! + 2 \cdot 2!$

(continued)

Table III (continued)

623	1 001 101 111 212002	7·89	$4^3 + 6^3 + 7^3$	$48^2 - 41^2$	$312^2 - 311^2$	$5 \cdot 5! + 3 \cdot 3! + 2 \cdot 2! + 1!$
624	1 001 110 000 212010	$2^4 \cdot 3 \cdot 13$	$25^2 - 1^2$	$32^2 - 20^2$	$43^2 - 35^2$	$55^2 - 49^2$ $80^2 - 76^2$
			$157^2 - 155^2$	$5^4 - 1^4$	$5 \cdot 5! + 1 \cdot 4!$	
625	1 001 110 001 212011	5^4	25^2	$15^2 + 20^2$	$7^2 + 24^2$	$12^2 + 15^2 + 16^2$ $9^2 + 12^2 + 20^2$
			$65^2 - 60^2$	$313^2 - 312^2$	$5 \cdot 5! + 1 \cdot 4! + 1!$	automorphic
626	1 001 110 010 212012	2·313	$1^2 + 25^2$	$9^2 + 16^2 + 17^2$	$11^2 + 12^2 + 19^2$	$3^2 + 16^2 + 19^2$
			$1^2 + 15^2 + 20^2$	$8^2 + 11^2 + 21^2$	$4^2 + 13^2 + 21^2$	$4^2 + 9^2 + 23^2$
			$5^2 + 5^2 + 24^2$	$1^2 + 7^2 + 24^2$	$1^4 + 5^4$	$5 \cdot 5! + 1 \cdot 4! + 1 \cdot 2!$
627	1 001 110 011 212020	3·11·19	$13^2 + 13^2 + 17^2$	$7^2 + 17^2 + 17^2$	$7^2 + 7^2 + 23^2$	$1^2 + 1^2 + 25^2$
			$1^4 + 1^4 + 5^4$	$26^2 - 7^2$	$34^2 - 23^2$	$106^2 - 103^2$ $314^2 - 313^2$
			$5 \cdot 5! + 1 \cdot 4! + 1 \cdot 2! + 1!$	p(20)		
628	1 001 110 100 212021	$2^2 \cdot 157$	$12^2 + 22^2$	$4^2 + 6^2 + 24^2$	$158^2 - 156^2$	$5 \cdot 5! + 1 \cdot 4! + 2 \cdot 2!$
629	1 001 110 101 212022	17·37	$10^2 + 23^2$	$2^2 + 25^2$	$12^2 + 14^2 + 17^2$	$7^2 + 16^2 + 18^2$
			$4^2 + 17^2 + 18^2$	$2^2 + 15^2 + 20^2$	$8^2 + 9^2 + 22^2$	$1^2 + 12^2 + 22^2$
			$6^2 + 8^2 + 23^2$	$2^2 + 7^2 + 24^2$	$27^2 - 10^2$	$315^2 - 314^2$
				$5 \cdot 5! + 1 \cdot 4! + 2 \cdot 2! + 1!$		
630	1 001 110 110 212100	$2 \cdot 3^2 \cdot 5 \cdot 7$	$\sum_{i=1}^{35} n$	$9^2 + 15^2 + 18^2$	$10^2 + 13^2 + 19^2$	$5^2 + 11^2 + 22^2$
			$1^2 + 10^2 + 23^2$	$1^2 + 2^2 + 25^2$	$\binom{36}{2}$	$5 \cdot 5! + 1 \cdot 4! + 1 \cdot 3!$
631	1 001 110 111 212101	prime	$316^2 - 315^2$	$15^3 - 14^3$	$5 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1!$	
632	1 001 111 000 212102	$2^3 \cdot 79$	$6^2 + 14^2 + 20^2$	$2^2 + 12^2 + 22^2$	$81^2 - 77^2$	$159^2 - 157^2$
			$5 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$			
633	1 001 111 001 212110	3·211	$11^2 + 16^2 + 16^2$	$4^2 + 16^2 + 19^2$	$8^2 + 13^2 + 20^2$	$7^2 + 10^2 + 22^2$
			$2^2 + 10^2 + 23^2$	$2^2 + 2^2 + 25^2$	$107^2 - 104^2$	$317^2 - 316^2$
			$5 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$			
634	1 001 111 010 212111	2·317	$3^2 + 25^2$	$3^2 + 15^2 + 20^2$	$7^2 + 12^2 + 21^2$	$3^2 + 7^2 + 24^2$
			$5 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$			
635	1 001 111 011 212112	5·127	$11^2 + 15^2 + 17^2$	$7^2 + 15^2 + 19^2$	$5^2 + 13^2 + 21^2$	$5^2 + 9^2 + 23^2$
			$1^2 + 3^2 + 25^2$	$66^2 - 61^2$	$318^2 - 317^2$	$5 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$
636	1 001 111 100 212120	$2^2 \cdot 3 \cdot 53$	$56^2 - 50^2$	$160^2 - 158^2$	$5 \cdot 5! + 1 \cdot 4! + 2 \cdot 3!$	
637	1 001 111 101 212121	$7^2 \cdot 13$	$14^2 + 21^2$	$12^2 + 13^2 + 18^2$	$3^2 + 12^2 + 22^2$	$5^2 + 6^2 + 24^2$
			$5^3 + 8^3$	$31^2 - 18^2$	$49^2 - 42^2$	$319^2 - 318^2$ $5 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1!$

(continued)

Table III (continued)

638	1 001 111 110 212122	$2 \cdot 11 \cdot 29$ $5^2 + 17^2 + 18^2$ $9^2 + 14^2 + 19^2$ $1^2 + 14^2 + 21^2$ $3^2 + 10^2 + 23^2$ $2^2 + 3^2 + 25^2$ $1^3 + 5^3 + 8^3$ $5 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
639	1 001 111 111 212200	$3^2 \cdot 71$ $40^2 - 31^2$ $108^2 - 105^2$ $320^2 - 319^2$ $5 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
640	1 010 000 000 212201	$2^7 \cdot 5$ $8^2 + 24^2$ $4^3 + 4^3 + 8^3$ $26^2 - 6^2$ $28^2 - 12^2$ $37^2 - 27^2$ $44^2 - 36^2$ $82^2 - 78^2$ $161^2 - 159^2$ $5 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
641	1 010 000 001 212202	prime $4^2 + 25^2$ $11^2 + 14^2 + 18^2$ $4^2 + 15^2 + 20^2$ $10^2 + 10^2 + 21^2$ $2^2 + 14^2 + 21^2$ $6^2 + 11^2 + 22^2$ $4^2 + 7^2 + 24^2$ $1^2 + 8^2 + 24^2$ $2^4 + 5^4$ $321^2 - 320^2$ $5 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
642	1 010 000 010 212210	$2 \cdot 3 \cdot 107$ $8^2 + 17^2 + 17^2$ $5^2 + 16^2 + 19^2$ $11^2 + 11^2 + 20^2$ $7^2 + 8^2 + 23^2$ $1^2 + 4^2 + 25^2$ $1^4 + 2^4 + 5^4$ $5 \cdot 5! + 1 \cdot 4! + 3 \cdot 3!$
643	1 010 000 011 212211	prime $9^2 + 11^2 + 21^2$ $3^2 + 3^2 + 25^2$ $322^2 - 321^2$ $5 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1!$
644	1 010 000 100 212212	$2^2 \cdot 7 \cdot 23$ $8^2 + 16^2 + 18^2$ $10^2 + 12^2 + 20^2$ $4^2 + 12^2 + 22^2$ $2^2 + 8^2 + 24^2$ $30^2 - 16^2$ $162^2 - 160^2$ $5 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
645	1 010 000 101 212220	$3 \cdot 5 \cdot 43$ $10^2 + 16^2 + 17^2$ $7^2 + 14^2 + 20^2$ $4^2 + 10^2 + 23^2$ $2^2 + 4^2 + 25^2$ $2^3 + 5^3 + 8^3$ $29^2 - 14^2$ $67^2 - 62^2$ $109^2 - 106^2$ $323^2 - 322^2$ $5 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$
646	1 010 000 110 212221	$2 \cdot 17 \cdot 19$ $14^2 + 15^2 + 15^2$ $6^2 + 13^2 + 21^2$ $3^2 + 14^2 + 21^2$ $9^2 + 9^2 + 22^2$ $6^2 + 9^2 + 23^2$ $5 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$
647	1 010 000 111 212222	prime $324^2 - 323^2$ $5 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$
648	1 010 001 000 220000	$2^3 \cdot 3^4$ $18^2 + 18^2$ $14^2 + 14^2 + 16^2$ $8^2 + 10^2 + 22^2$ $6^2 + 6^2 + 24^2$ $6^3 + 6^3 + 6^3$ $27^2 - 9^2$ $33^2 - 21^2$ $57^2 - 51^2$ $83^2 - 79^2$ $163^2 - 161^2$ $5 \cdot 5! + 2 \cdot 4!$
649	1 010 001 001 220001	$11 \cdot 59$ $10^2 + 15^2 + 18^2$ $6^2 + 17^2 + 18^2$ $1^2 + 18^2 + 18^2$ $12^2 + 12^2 + 19^2$ $8^2 + 12^2 + 21^2$ $3^2 + 8^2 + 24^2$ $35^2 - 24^2$ $325^2 - 324^2$ $5 \cdot 5! + 2 \cdot 4! + 1!$
650	1 010 001 010 220002	$2 \cdot 5^2 \cdot 13$ $17^2 + 19^2$ $11^2 + 23^2$ $5^2 + 25^2$ $13^2 + 15^2 + 16^2$ $8^2 + 15^2 + 19^2$ $9^2 + 13^2 + 20^2$ $5^2 + 15^2 + 20^2$ $5^2 + 7^2 + 24^2$ $3^2 + 4^2 + 25^2$ $\sum_1^{12} n^2$ $5 \cdot 5! + 2 \cdot 4! + 1 \cdot 2!$
651	1 010 001 011 220010	$3 \cdot 7 \cdot 31$ $11^2 + 13^2 + 19^2$ $1^2 + 17^2 + 19^2$ $1^2 + 11^2 + 23^2$ $1^2 + 5^2 + 25^2$ $26^2 - 5^2$ $50^2 - 43^2$ $110^2 - 107^2$ $326^2 - 325^2$ $5 \cdot 5! + 2 \cdot 4! + 1 \cdot 2! + 1!$
652	1 010 001 100 220011	$2^2 \cdot 163$ $2^2 + 18^2 + 18^2$ $164^2 - 162^2$ $5 \cdot 5! + 2 \cdot 4! + 2 \cdot 2!$

(continued)

Table III (continued)

653	1 010 001 101 220012	prime $13^2 + 22^2$ $6^2 + 16^2 + 19^2$ $4^2 + 14^2 + 21^2$ $5^2 + 12^2 + 22^2$ $327^2 - 326^2$ $5 \cdot 5! + 2 \cdot 4! + 2 \cdot 2! + 1!$
654	1 010 001 110 220020	$2 \cdot 3 \cdot 109$ $13^2 + 14^2 + 17^2$ $2^2 + 17^2 + 19^2$ $7^2 + 11^2 + 22^2$ $1^2 + 13^2 + 22^2$ $5^2 + 10^2 + 23^2$ $2^2 + 11^2 + 23^2$ $2^2 + 5^2 + 25^2$ $5 \cdot 5! + 2 \cdot 4! + 1 \cdot 3!$
655	1 010 001 111 220021	$5 \cdot 131$ $68^2 - 63^2$ $328^2 - 327^2$ $5 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1!$
656	1 010 010 000 220022	$2^4 \cdot 41$ $16^2 + 20^2$ $12^2 + 16^2 + 16^2$ $4^2 + 8^2 + 24^2$ $45^2 - 37^2$ $84^2 - 80^2$ $165^2 - 163^2$ $5 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$
657	1 010 010 001 220100	$3^2 \cdot 73$ $9^2 + 24^2$ $3^2 + 18^2 + 18^2$ $10^2 + 14^2 + 19^2$ $1^2 + 16^2 + 20^2$ $2^2 + 13^2 + 22^2$ $8^2 + 8^2 + 23^2$ $4^2 + 4^2 + 25^2$ $41^2 - 32^2$ $111^2 - 108^2$ $329^2 - 328^2$ $10^3 - 7^3$ $5 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$
658	1 010 010 010 220101	$2 \cdot 7 \cdot 47$ $12^2 + 15^2 + 17^2$ $1^2 + 9^2 + 24^2$ $5 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$
659	1 010 010 011 220102	prime $9^2 + 17^2 + 17^2$ $3^2 + 17^2 + 19^2$ $7^2 + 13^2 + 21^2$ $7^2 + 9^2 + 23^2$ $3^2 + 11^2 + 23^2$ $3^2 + 5^2 + 25^2$ $330^2 - 329^2$ $5 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$
660	1 010 010 100 220110	$2^2 \cdot 3 \cdot 5 \cdot 11$ $8^2 + 14^2 + 20^2$ $2^2 + 16^2 + 20^2$ $26^2 - 4^2$ $38^2 - 28^2$ $58^2 - 52^2$ $166^2 - 164^2$ $5 \cdot 5! + 2 \cdot 4! + 2 \cdot 3!$
661	1 010 010 101 220111	prime $6^2 + 25^2$ $9^2 + 16^2 + 18^2$ $6^2 + 15^2 + 20^2$ $6^2 + 7^2 + 24^2$ $2^2 + 9^2 + 24^2$ $331^2 - 330^2$ $5 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1!$
662	1 010 010 110 220112	$2 \cdot 331$ $13^2 + 13^2 + 18^2$ $7^2 + 17^2 + 18^2$ $10^2 + 11^2 + 21^2$ $5^2 + 14^2 + 21^2$ $3^2 + 13^2 + 22^2$ $1^2 + 6^2 + 25^2$ $5 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
663	1 010 010 111 220120	$3 \cdot 13 \cdot 17$ $28^2 - 11^2$ $32^2 - 19^2$ $112^2 - 109^2$ $332^2 - 331^2$ $5 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
664	1 010 011 000 220121	$2^3 \cdot 83$ $12^2 + 14^2 + 18^2$ $4^2 + 18^2 + 18^2$ $6^2 + 12^2 + 22^2$ $3^3 + 5^3 + 8^3$ $85^2 - 81^2$ $167^2 - 165^2$ $5 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$
665	1 010 011 001 220122	$5 \cdot 7 \cdot 19$ $11^2 + 12^2 + 20^2$ $3^2 + 16^2 + 20^2$ $9^2 + 10^2 + 22^2$ $6^2 + 10^2 + 23^2$ $5^2 + 8^2 + 24^2$ $2^2 + 6^2 + 25^2$ $27^2 - 8^2$ $51^2 - 44^2$ $69^2 - 64^2$ $333^2 - 332^2$ $9^3 - 4^3$ $3^6 - 2^6$ $5 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
666	1 010 011 010 220200	$2 \cdot 3^2 \cdot 37$ $\sum_{n=1}^{36} n$ $15^2 + 21^2$ $11^2 + 16^2 + 17^2$ $7^2 + 16^2 + 19^2$ $4^2 + 17^2 + 19^2$ $9^2 + 12^2 + 21^2$ $4^2 + 11^2 + 23^2$ $3^2 + 9^2 + 24^2$ $4^2 + 5^2 + 25^2$ $\binom{37}{2}$ $5 \cdot 5! + 2 \cdot 4! + 3 \cdot 3!$
667	1 010 011 011 220201	$23 \cdot 29$ $9^2 + 15^2 + 19^2$ $1^2 + 15^2 + 21^2$ $26^2 - 3^2$ $334^2 - 333^2$ $5 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1!$

(continued)

Table III (continued)

668	1 010 011 100 220202	$2^2 \cdot 167$	$168^2 - 166^2$	$5 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$	$q(36)$		
669	1 010 011 101 220210	3·223	$10^2 + 13^2 + 20^2$	$8^2 + 11^2 + 22^2$	$4^2 + 13^2 + 22^2$	$113^2 - 110^2$	
		$335^2 - 334^2$	$5 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$				
670	1 010 011 110 220211	2·5·67	$11^2 + 15^2 + 18^2$	$2^2 + 15^2 + 21^2$	$3^2 + 6^2 + 25^2$		
		$5 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$					
671	1 010 011 111 220212	11·61	$36^2 - 25^2$	$336^2 - 335^2$	$6^4 - 5^4$	$5 \cdot 5! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$	
672	1 010 100 000 220220	$2^5 \cdot 3 \cdot 7$	$4^2 + 16^2 + 20^2$	$26^2 - 2^2$	$29^2 - 13^2$	$31^2 - 17^2$	$34^2 - 22^2$
		$46^2 - 38^2$	$59^2 - 53^2$	$86^2 - 82^2$	$169^2 - 167^2$	$5 \cdot 5! + 3 \cdot 4!$	
673	1 010 100 001 220221	prime	$12^2 + 23^2$	$5^2 + 18^2 + 18^2$	$6^2 + 14^2 + 21^2$	$4^2 + 9^2 + 24^2$	
		$337^2 - 336^2$	$5 \cdot 5! + 3 \cdot 4! + 1!$				
674	1 010 100 010 220222	2·337	$7^2 + 25^2$	$12^2 + 13^2 + 19^2$	$7^2 + 15^2 + 20^2$	$8^2 + 13^2 + 21^2$	
		$8^2 + 9^2 + 23^2$	$1^2 + 12^2 + 23^2$	$7^2 + 7^2 + 24^2$	$5 \cdot 5! + 3 \cdot 4! + 1 \cdot 2!$		
675	1 010 100 011 221000	$3^3 \cdot 5^2$	$15^2 + 15^2 + 15^2$	$5^2 + 17^2 + 19^2$	$3^2 + 15^2 + 21^2$	$5^2 + 11^2 + 23^2$	
		$5^2 + 5^2 + 25^2$	$1^2 + 7^2 + 25^2$	$26^2 - 1^2$	$30^2 - 15^2$	$42^2 - 33^2$	
		$70^2 - 65^2$	$114^2 - 111^2$	$338^2 - 337^2$	$5 \cdot 5! + 3 \cdot 4! + 1 \cdot 2! + 1!$		
676	1 010 100 100 221001	$2^2 \cdot 13^2$	26^2	$10^2 + 24^2$	$6^2 + 8^2 + 24^2$	$170^2 - 168^2$	
		$5 \cdot 5! + 3 \cdot 4! + 2 \cdot 2!$					
677	1 010 100 101 221002	prime	$1^2 + 26^2$	$14^2 + 15^2 + 16^2$	$8^2 + 17^2 + 18^2$	$9^2 + 14^2 + 20^2$	
		$7^2 + 12^2 + 22^2$	$2^2 + 12^2 + 23^2$	$1^2 + 10^2 + 24^2$	$4^2 + 6^2 + 25^2$		
		$339^2 - 338^2$	$5 \cdot 5! + 3 \cdot 4! + 2 \cdot 2! + 1!$				
678	1 010 100 110 221010	2·3·113	$10^2 + 17^2 + 17^2$	$11^2 + 14^2 + 19^2$	$5^2 + 13^2 + 22^2$		
		$7^2 + 10^2 + 23^2$	$2^2 + 7^2 + 25^2$	$1^2 + 1^2 + 26^2$	$5 \cdot 5! + 3 \cdot 4! + 1 \cdot 2!$		
679	1 010 100 111 221011	7·97	$52^2 - 45^2$	$340^2 - 339^2$	$5 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1!$		
680	1 010 101 000 221012	$2^3 \cdot 5 \cdot 17$	$14^2 + 22^2$	$2^2 + 26^2$	$10^2 + 16^2 + 18^2$	$2^2 + 10^2 + 24^2$	
		$27^2 - 7^2$	$39^2 - 29^2$	$87^2 - 83^2$	$171^2 - 169^2$	$(\frac{17}{3})$	
		$5 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$					
681	1 010 101 001 221020	3·227	$13^2 + 16^2 + 16^2$	$14^2 + 14^2 + 17^2$	$8^2 + 16^2 + 19^2$	$5^2 + 16^2 + 20^2$	
		$1^2 + 14^2 + 22^2$	$1^2 + 2^2 + 26^2$	$115^2 - 112^2$	$341^2 - 340^2$		
		$5 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$					
682	1 010 101 010 221021	2·11·31	$4^2 + 15^2 + 21^2$	$3^2 + 12^2 + 23^2$	$5^2 + 9^2 + 24^2$		
		$5 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$					

(continued)

Table III (continued)

683	1 010 101 011 221022	prime	$13^2 + 15^2 + 17^2$	$11^2 + 11^2 + 21^2$	$3^2 + 7^2 + 25^2$	$342^2 - 341^2$
			$5 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$			
684	1 010 101 100 221100	$2^2 \cdot 3^2 \cdot 19$	$6^2 + 18^2 + 18^2$	$10^2 + 10^2 + 22^2$	$2^2 + 14^2 + 22^2$	$2^2 + 2^2 + 26^2$
		$5^3 + 6^3 + 7^3$	$28^2 - 10^2$	$60^2 - 54^2$	$172^2 - 170^2$	$5 \cdot 5! + 3 \cdot 4! + 2 \cdot 3!$
685	1 010 101 101 221101	$5 \cdot 137$	$18^2 + 19^2$	$3^2 + 26^2$	$10^2 + 12^2 + 21^2$	$3^2 + 10^2 + 24^2$
		$71^2 - 66^2$	$343^2 - 342^2$	$5 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1!$		
686	1 010 101 110 221102	$2 \cdot 7^3$	$10^2 + 15^2 + 19^2$	$6^2 + 17^2 + 19^2$	$1^2 + 18^2 + 19^2$	$7^2 + 14^2 + 21^2$
		$9^2 + 11^2 + 22^2$	$6^2 + 11^2 + 23^2$	$5^2 + 6^2 + 25^2$	$1^2 + 3^2 + 26^2$	
		$7^3 + 7^3$	$5 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$			
687	1 010 101 111 221110	$3 \cdot 229$	$1^3 + 7^3 + 7^3$	$116^2 - 113^2$	$344^2 - 343^2$	
		$5 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$				
688	1 010 110 000 221111	$2^4 \cdot 43$	$12^2 + 12^2 + 20^2$	$47^2 - 39^2$	$88^2 - 84^2$	$173^2 - 171^2$
		$5 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$				
689	1 010 110 001 221112	$13 \cdot 53$	$17^2 + 20^2$	$8^2 + 25^2$	$12^2 + 16^2 + 17^2$	$13^2 + 14^2 + 18^2$
		$2^2 + 18^2 + 19^2$	$8^2 + 15^2 + 20^2$	$6^2 + 13^2 + 22^2$	$3^2 + 14^2 + 22^2$	
		$4^2 + 12^2 + 23^2$	$7^2 + 8^2 + 24^2$	$2^2 + 3^2 + 26^2$	$33^2 - 20^2$	$345^2 - 344^2$
		$5 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$				
690	1 010 110 010 221120	$2 \cdot 3 \cdot 5 \cdot 23$	$11^2 + 13^2 + 20^2$	$1^2 + 17^2 + 20^2$	$4^2 + 7^2 + 25^2$	
		$1^2 + 8^2 + 25^2$	$5 \cdot 5! + 3 \cdot 4! + 3 \cdot 3!$			
691	1 010 110 011 221121	prime	$9^2 + 13^2 + 21^2$	$5^2 + 15^2 + 21^2$	$9^2 + 9^2 + 23^2$	
		$346^2 - 345^2$	$5 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1!$			
692	1 010 110 100 221122	$2^2 \cdot 173$	$4^2 + 26^2$	$6^2 + 16^2 + 20^2$	$8^2 + 12^2 + 22^2$	$4^2 + 10^2 + 24^2$
		$174^2 - 172^2$	$5 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$			
693	1 010 110 101 221200	$3^2 \cdot 7 \cdot 11$	$12^2 + 15^2 + 18^2$	$2^2 + 17^2 + 20^2$	$8^2 + 10^2 + 23^2$	$6^2 + 9^2 + 24^2$
		$2^2 + 8^2 + 25^2$	$1^2 + 4^2 + 26^2$	$27^2 - 6^2$	$37^2 - 26^2$	$43^2 - 34^2$
		$53^2 - 46^2$	$117^2 - 114^2$	$347^2 - 346^2$	$5 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$	
694	1 010 110 110 221201	$2 \cdot 347$	$9^2 + 17^2 + 18^2$	$3^2 + 18^2 + 19^2$	$3^2 + 3^2 + 26^2$	$2^3 + 7^3 + 7^3$
		$5 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$				
695	1 010 110 111 221202	$5 \cdot 139$	$72^2 - 67^2$	$348^2 - 347^2$	$5 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$	
696	1 010 111 000 221210	$2^3 \cdot 3 \cdot 29$	$10^2 + 14^2 + 20^2$	$4^2 + 14^2 + 22^2$	$2^2 + 4^2 + 26^2$	$35^2 - 23^2$
		$61^2 - 55^2$	$89^2 - 85^2$	$175^2 - 173^2$	$5 \cdot 5! + 4 \cdot 4!$	
697	1 010 111 001 221211	$17 \cdot 41$	$16^2 + 21^2$	$11^2 + 24^2$	$7^2 + 18^2 + 18^2$	$6^2 + 6^2 + 25^2$
		$29^2 - 12^2$	$349^2 - 348^2$	$5 \cdot 5! + 4 \cdot 4! + 1!$		

(continued)

Table III (continued)

698	1 010 111 010 221212	2·349 $13^2 + 23^2$ $9^2 + 16^2 + 19^2$ $3^2 + 17^2 + 20^2$ $1^2 + 16^2 + 21^2$ $5^2 + 12^2 + 23^2$ $1^2 + 11^2 + 24^2$ $3^2 + 8^2 + 25^2$ $5 \cdot 5! + 4 \cdot 4! + 1 \cdot 2!$
699	1 010 111 011 221220	3·233 $11^2 + 17^2 + 17^2$ $13^2 + 13^2 + 19^2$ $7^2 + 17^2 + 19^2$ $7^2 + 11^2 + 23^2$ $1^2 + 13^2 + 23^2$ $5^2 + 7^2 + 25^2$ $118^2 - 115^2$ $350^2 - 349^2$ $5 \cdot 5! + 4 \cdot 4! + 1 \cdot 2! + 1!$
700	1 010 111 100 221221	$2^2 \cdot 5^2 \cdot 7$ $32^2 - 18^2$ $40^2 - 30^2$ $176^2 - 174^2$ $5 \cdot 5! + 4 \cdot 4! + 2 \cdot 2!$
701	1 010 111 101 221222	prime $5^2 + 26^2$ $11^2 + 16^2 + 18^2$ $12^2 + 14^2 + 19^2$ $4^2 + 18^2 + 19^2$ $8^2 + 14^2 + 21^2$ $2^2 + 16^2 + 21^2$ $5^2 + 10^2 + 24^2$ $2^2 + 11^2 + 24^2$ $3^2 + 4^2 + 26^2$ $351^2 - 350^2$ $4^3 + 5^3 + 8^3$ $5 \cdot 5! + 4 \cdot 4! + 2 \cdot 2! + 1!$
702	1 010 111 110 222000	$2 \cdot 3^3 \cdot 13$ $6^2 + 15^2 + 21^2$ $7^2 + 13^2 + 22^2$ $2^2 + 13^2 + 23^2$ $1^2 + 5^2 + 26^2$ $9^3 - 3^3$ $5 \cdot 5! + 4 \cdot 4! + 1 \cdot 3!$
703	1 010 111 111 222001	$19 \cdot 37$ $\sum_1^{37} n$ $28^2 - 9^2$ $352^2 - 351^2$ $\binom{38}{2}$ $5 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1!$
704	1 011 000 000 222002	$2^6 \cdot 11$ $8^2 + 8^2 + 24^2$ $27^2 - 5^2$ $30^2 - 14^2$ $48^2 - 14^2$ $90^2 - 86^2$ $177^2 - 175^2$ $5 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$
705	1 011 000 001 222010	$3 \cdot 5 \cdot 47$ $7^2 + 16^2 + 20^2$ $4^2 + 17^2 + 20^2$ $10^2 + 11^2 + 22^2$ $5^2 + 14^2 + 22^2$ $4^2 + 8^2 + 25^2$ $2^2 + 5^2 + 26^2$ $31^2 - 16^2$ $73^2 - 68^2$ $119^2 - 116^2$ $353^2 - 352^2$ $5 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$
706	1 011 000 010 222011	2·353 $9^2 + 25^2$ $15^2 + 15^2 + 16^2$ $9^2 + 15^2 + 20^2$ $11^2 + 12^2 + 21^2$ $3^2 + 16^2 + 21^2$ $7^2 + 9^2 + 24^2$ $3^2 + 11^2 + 24^2$ $3^4 + 5^4$ $5 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$
707	1 011 000 011 222012	7·101 $11^2 + 15^2 + 19^2$ $3^2 + 13^2 + 23^2$ $1^2 + 9^2 + 25^2$ $1^4 + 3^4 + 5^4$ $54^2 - 47^2$ $354^2 - 353^2$ $5 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$
708	1 011 000 100 222020	$2^2 \cdot 3 \cdot 59$ $14^2 + 16^2 + 16^2$ $4^2 + 4^2 + 26^2$ $62^2 - 56^2$ $178^2 - 176^2$ $5 \cdot 5! + 4 \cdot 4! + 2 \cdot 3!$ $r(28)$
709	1 011 000 101 222021	prime $15^2 + 22^2$ $9^2 + 12^2 + 22^2$ $6^2 + 12^2 + 23^2$ $355^2 - 354^2$ $5 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1!$
710	1 011 000 110 222022	$2 \cdot 5 \cdot 71$ $14^2 + 15^2 + 17^2$ $5^2 + 18^2 + 19^2$ $10^2 + 13^2 + 21^2$ $1^2 + 15^2 + 22^2$ $9^2 + 10^2 + 23^2$ $6^2 + 7^2 + 25^2$ $2^2 + 9^2 + 25^2$ $3^2 + 5^2 + 26^2$ $5 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
711	1 011 000 111 222100	$3^2 \cdot 79$ $44^2 - 35^2$ $120^2 - 117^2$ $356^2 - 355^2$ $5 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
712	1 011 001 000 222101	$2^3 \cdot 89$ $6^2 + 26^2$ $8^2 + 18^2 + 18^2$ $6^2 + 10^2 + 24^2$ $91^2 - 87^2$ $179^2 - 177^2$ $5 \cdot 5! + 4 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$

(continued)

Table III (continued)

713	1 011 001 001 222102	23·31 $10^2 + 17^2 + 18^2$ $12^2 + 13^2 + 20^2$ $4^2 + 16^2 + 21^2$ $2^2 + 15^2 + 22^2$ $4^2 + 11^2 + 24^2$ $1^2 + 6^2 + 26^2$ $3^3 + 7^3 + 7^3$ $27^2 - 4^2$ $357^2 - 356^2$ $5·5! + 4·4! + 2·3! + 2·2! + 1!$
714	1 011 001 010 222110	2·3·7·17 $13^2 + 16^2 + 17^2$ $8^2 + 17^2 + 19^2$ $5^2 + 17^2 + 20^2$ $8^2 + 11^2 + 23^2$ $4^2 + 13^2 + 23^2$ $5^2 + 8^2 + 25^2$ $5·5! + 4·4! + 3·3!$
715	1 011 001 011 222111	5·11·13 $7^2 + 15^2 + 21^2$ $3^2 + 9^2 + 25^2$ $34^2 - 21^2$ $38^2 - 27^2$ $74^2 - 69^2$ $358^2 - 357^2$ $\binom{13}{4}$ $5·5! + 4·4! + 3·3! + 1!$
716	1 011 001 100 222112	$2^2·179$ $14^2 + 14^2 + 18^2$ $6^2 + 14^2 + 22^2$ $2^2 + 6^2 + 26^2$ $180^2 - 178^2$ $5·5! + 4·4! + 3·3! + 1·2!$
717	1 011 001 101 222120	3·239 $10^2 + 16^2 + 19^2$ $11^2 + 14^2 + 20^2$ $8^2 + 13^2 + 22^2$ $4^2 + 5^2 + 26^2$ $121^2 - 118^2$ $359^2 - 358^2$ $5·5! + 4·4! + 3·3! + 1·2! + 1!$
718	1 011 001 110 222121	2·359 $13^2 + 15^2 + 18^2$ $9^2 + 14^2 + 21^2$ $3^2 + 15^2 + 22^2$ $5·5! + 4·4! + 3·3! + 2·2!$
719	1 011 001 111 222122	prime $360^2 - 359^2$ $5·5! + 4·4! + 3·3! + 2·2! + 1!$
720	1 011 010 000 222200	$2^4·3^2·5$ $12^2 + 24^2$ $8^2 + 16^2 + 20^2$ $27^2 - 3^2$ $28^2 - 8^2$ $29^2 - 11^2$ $36^2 - 24^2$ $41^2 - 31^2$ $49^2 - 41^2$ $63^2 - 57^2$ $92^2 - 88^2$ $181^2 - 179^2$ $6!$ $s_7^{(1)}$
721	1 011 010 001 222201	7·103 $6^2 + 18^2 + 19^2$ $8^2 + 9^2 + 24^2$ $1^2 + 12^2 + 24^2$ $3^2 + 6^2 + 26^2$ $55^2 - 48^2$ $361^2 - 360^2$ $9^3 - 2^3$ $16^3 - 15^3$ $1·6! + 1!$
722	1 011 010 010 222202	$2·19^2$ $19^2 + 19^2$ $12^2 + 17^2 + 17^2$ $5^2 + 16^2 + 21^2$ $7^2 + 12^2 + 23^2$ $5^2 + 11^2 + 24^2$ $4^2 + 9^2 + 25^2$ $2^4 + 3^4 + 5^4$ $1·6! + 1·2!$
723	1 011 010 011 222210	3·241 $1^2 + 19^2 + 19^2$ $5^2 + 13^2 + 23^2$ $7^2 + 7^2 + 25^2$ $122^2 - 119^2$ $362^2 - 361^2$ $1·6! + 1·2! + 1!$
724	1 011 010 100 222211	$2^2·181$ $18^2 + 20^2$ $12^2 + 16^2 + 18^2$ $2^2 + 12^2 + 24^2$ $182^2 - 180^2$ $1·6! + 2·2!$
725	1 011 010 101 222212	$5^2·29$ $14^2 + 23^2$ $10^2 + 25^2$ $7^2 + 26^2$ $10^2 + 15^2 + 20^2$ $6^2 + 17^2 + 20^2$ $1^2 + 18^2 + 20^2$ $4^2 + 15^2 + 22^2$ $7^2 + 10^2 + 24^2$ $6^2 + 8^2 + 25^2$ $27^2 - 2^2$ $75^2 - 70^2$ $363^2 - 362^2$ $1·6! + 2·2! + 1!$
726	1 011 010 110 222220	$2·3·11^2$ $13^2 + 14^2 + 19^2$ $2^2 + 19^2 + 19^2$ $11^2 + 11^2 + 22^2$ $1^2 + 14^2 + 23^2$ $1^2 + 10^2 + 25^2$ $5^2 + 5^2 + 26^2$ $1^2 + 7^2 + 26^2$ $1·6! + 1·3!$
727	1 011 010 111 222221	prime $364^2 - 363^2$ $1·6! + 1·3! + 1!$

(continued)

Table III (continued)

728	1 011 011 000 222222	$2^3 \cdot 7 \cdot 13$ $27^2 - 1^2$ $3^6 - 1^6$	$2^2 + 18^2 + 20^2$ $33^2 - 19^2$ $1 \cdot 6! + 1 \cdot 3! + 1 \cdot 2!$	$10^2 + 12^2 + 22^2$ $93^2 - 89^2$	$4^2 + 6^2 + 26^2$ $183^2 - 181^2$	$6^3 + 8^3$ $9^3 - 1^3$	$12^3 - 10^3$
729	1 011 011 001 1000000	3^6 $10^2 + 10^2 + 23^2$ $2^2 + 7^2 + 26^2$ $365^2 - 364^2$	27^2 $2^2 + 14^2 + 23^2$ $1^3 + 6^3 + 8^3$ $1 \cdot 6! + 1 \cdot 3! + 1 \cdot 2! + 1!$	9^3 $2^2 + 18^2 + 18^2$ $3^5 + 3^5 + 3^5$	$9^2 + 18^2 + 18^2$ $3^2 + 12^2 + 24^2$ $45^2 - 36^2$	$12^2 + 12^2 + 21^2$ $2^2 + 10^2 + 25^2$ $123^2 - 120^2$	$7^2 + 14^2 + 22^2$ $2^2 + 10^2 + 25^2$
730	1 011 011 010 1000001	$2 \cdot 5 \cdot 7 \cdot 3$ $1^3 + 9^3$	$17^2 + 21^2$ $1^6 + 3^6$ $1 \cdot 6! + 1 \cdot 3! + 2 \cdot 2!$	$1^2 + 27^2$ $1 \cdot 6! + 1 \cdot 3! + 2 \cdot 2!$	$12^2 + 15^2 + 19^2$	$8^2 + 15^2 + 21^2$	
731	1 011 011 011 1000002	$17 \cdot 4 \cdot 3$ $9^2 + 11^2 + 23^2$ $1^6 + 1^6 + 3^6$	$9^2 + 17^2 + 19^2$ $5^2 + 9^2 + 25^2$ $30^2 - 13^2$	$3^2 + 19^2 + 19^2$ $1^2 + 1^2 + 27^2$ $366^2 - 365^2$	$11^2 + 13^2 + 21^2$ $1^3 + 1^3 + 9^3$ $1 \cdot 6! + 1 \cdot 3! + 2 \cdot 2! + 1!$	$1^2 + 17^2 + 21^2$	
732	1 011 011 100 1000010	$2^2 \cdot 3 \cdot 6 \cdot 1$	$64^2 - 58^2$ $184^2 - 182^2$	$1 \cdot 6! + 2 \cdot 3!$			
733	1 011 011 101 1000011	prime $367^2 - 366^2$	$2^2 + 27^2$ $1 \cdot 6! + 2 \cdot 3! + 1!$	$3^2 + 18^2 + 20^2$	$6^2 + 16^2 + 21^2$	$6^2 + 11^2 + 24^2$	
734	1 011 011 110 1000012	$2 \cdot 3 \cdot 6 \cdot 7$ $5^2 + 15^2 + 22^2$ $3^2 + 7^2 + 26^2$	$11^2 + 17^2 + 18^2$ $6^2 + 13^2 + 23^2$ $1^2 + 2^2 + 27^2$	$7^2 + 18^2 + 19^2$ $3^2 + 14^2 + 23^2$ $1 \cdot 6! + 2 \cdot 3! + 1 \cdot 2!$	$2^2 + 17^2 + 21^2$ $3^2 + 10^2 + 25^2$	$9^2 + 13^2 + 22^2$	
735	1 011 011 111 1000020	$3 \cdot 5 \cdot 7^2$ $368^2 - 367^2$	$28^2 - 7^2$ $1 \cdot 6! + 2 \cdot 3! + 1 \cdot 2! + 1!$	$32^2 - 17^2$ $-S_7^{(4)}$	$56^2 - 49^2$ $76^2 - 71^2$	$124^2 - 121^2$	
736	1 011 100 000 1000021	$2^5 \cdot 23$ $185^2 - 183^2$	$4^2 + 12^2 + 24^2$ $1 \cdot 6! + 2 \cdot 3! + 2 \cdot 2!$	$2^3 + 6^3 + 8^3$	$31^2 - 15^2$	$50^2 - 42^2$	$94^2 - 90^2$
737	1 011 100 001 1000022	$11 \cdot 6 \cdot 7$ $5^2 + 6^2 + 26^2$ $1 \cdot 6! + 2 \cdot 3! + 2 \cdot 2! + 1!$	$15^2 + 16^2 + 16^2$ $2^2 + 2^2 + 27^2$	$9^2 + 16^2 + 20^2$ $2^3 + 9^3$	$10^2 + 14^2 + 21^2$ $39^2 - 28^2$	$8^2 + 12^2 + 23^2$ $369^2 - 368^2$	
738	1 011 100 010 1000100	$2 \cdot 3^2 \cdot 4 \cdot 1$ $7^2 + 17^2 + 20^2$	$3^2 + 27^2$ $9^2 + 9^2 + 24^2$	$11^2 + 16^2 + 19^2$ $7^2 + 8^2 + 25^2$	$4^2 + 19^2 + 19^2$ $1^3 + 2^3 + 9^3$	$13^2 + 13^2 + 20^2$ $1 \cdot 6! + 3 \cdot 3!$	
739	1 011 100 011 1000101	prime $1 \cdot 6! + 3 \cdot 3! + 1!$	$15^2 + 15^2 + 17^2$	$3^2 + 17^2 + 21^2$	$1^2 + 3^2 + 27^2$	$370^2 - 369^2$	
740	1 011 100 100 1000102	$2^2 \cdot 5 \cdot 3 \cdot 7$ $8^2 + 10^2 + 24^2$	$16^2 + 22^2$ $42^2 - 32^2$	$8^2 + 26^2$ $186^2 - 184^2$	$12^2 + 14^2 + 20^2$ $1 \cdot 6! + 3 \cdot 3! + 1 \cdot 2!$	$4^2 + 18^2 + 20^2$	
741	1 011 100 101 1000110	$3 \cdot 13 \cdot 19$ $4^2 + 10^2 + 25^2$ $125^2 - 122^2$	$\sum_{n=1}^{38} n$ $4^2 + 7^2 + 26^2$ $371^2 - 370^2$	$14^2 + 16^2 + 17^2$ $1^2 + 8^2 + 26^2$ $(\frac{39}{2})$	$1^2 + 16^2 + 22^2$ $29^2 - 10^2$ $1 \cdot 6! + 3 \cdot 3! + 1 \cdot 2! + 1!$	$4^2 + 14^2 + 23^2$ $35^2 - 22^2$	

(continued)

Table III (continued)

742	1 011 100 110 1000111	2·7·53	$6^2 + 9^2 + 25^2$	$2^2 + 3^2 + 27^2$	$1·6! + 3·3! + 2·2!$
743	1 011 100 111 1000112	prime	$372^2 - 371^2$	$1·6! + 3·3! + 2·2! + 1!$	
744	1 011 101 000 1000120	$2^3·3·31$	$8^2 + 14^2 + 22^2$	$2^2 + 16^2 + 22^2$	$2^2 + 8^2 + 26^2$
			$65^2 - 59^2$	$95^2 - 91^2$	$187^2 - 185^2$
					$1·6! + 1·4!$
745	1 011 101 001 1000121	5·149	$13^2 + 24^2$	$4^2 + 27^2$	$14^2 + 15^2 + 18^2$
			$5^2 + 12^2 + 24^2$	$2^3 + 2^3 + 9^3$	$77^2 - 72^2$
					$373^2 - 372^2$
					$1·6! + 1·4! + 1!$
746	1 011 101 010 1000122	2·373	$11^2 + 25^2$	$11^2 + 15^2 + 20^2$	$7^2 + 16^2 + 21^2$
			$7^2 + 11^2 + 24^2$	$1^2 + 13^2 + 24^2$	$1^2 + 4^2 + 27^2$
					$1·6! + 1·4! + 1·2!$
747	1 011 101 011 1000200	$3^2·83$	$13^2 + 17^2 + 17^2$	$5^2 + 19^2 + 19^2$	$9^2 + 15^2 + 21^2$
			$1^2 + 11^2 + 25^2$	$3^2 + 3^2 + 27^2$	$46^2 - 37^2$
					$126^2 - 123^2$
					$374^2 - 373^2$
					$1·6! + 1·4! + 1·2! + 1!$
748	1 011 101 100 1000201	$2^2·11·17$	$10^2 + 18^2 + 18^2$	$6^2 + 6^2 + 26^2$	$28^2 - 6^2$
					$188^2 - 186^2$
					$1·6! + 1·4! + 2·2!$
749	1 011 101 101 1000202	7·107	$13^2 + 16^2 + 18^2$	$8^2 + 18^2 + 19^2$	$5^2 + 18^2 + 20^2$
			$3^2 + 16^2 + 22^2$	$2^2 + 13^2 + 24^2$	$3^2 + 8^2 + 26^2$
					$2^2 + 4^2 + 27^2$
			$57^2 - 50^2$	$375^2 - 374^2$	$1·6! + 1·4! + 2·2! + 1!$
750	1 011 101 110 1000210	$2·3·5^3$	$10^2 + 17^2 + 19^2$	$10^2 + 11^2 + 23^2$	$5^2 + 14^2 + 23^2$
			$2^2 + 11^2 + 25^2$	$5^2 + 7^2 + 26^2$	$4^3 + 7^3 + 7^3$
					$1·6! + 1·4! + 1·3!$
					$8_{10}^{(8)}$
751	1 011 101 111 1000211	prime	$376^2 - 375^2$	$1·6! + 1·4! + 1·3! + 1!$	
752	1 011 110 000 1000212	$2^4·47$	$51^2 - 43^2$	$96^2 - 92^2$	$189^2 - 187^2$
					$1·6! + 1·4! + 1·3! + 1·2!$
753	1 011 110 001 1000220	3·251	$14^2 + 14^2 + 19^2$	$8^2 + 17^2 + 20^2$	$10^2 + 13^2 + 22^2$
			$127^2 - 124^2$	$377^2 - 376^2$	$8^2 + 8^2 + 25^2$
					$1·6! + 1·4! + 1·3! + 1·2! + 1!$
754	1 011 110 010 1000221	2·13·29	$15^2 + 23^2$	$5^2 + 27^2$	$12^2 + 13^2 + 21^2$
			$3^2 + 13^2 + 24^2$	$3^2 + 4^2 + 27^2$	$9^2 + 12^2 + 23^2$
					$1·6! + 1·4! + 1·3! + 2·2!$
755	1 011 110 011 1000222	5·151	$13^2 + 15^2 + 19^2$	$5^2 + 17^2 + 21^2$	$1^2 + 15^2 + 23^2$
			$3^2 + 11^2 + 25^2$	$1^2 + 5^2 + 27^2$	$3^3 + 6^3 + 8^3$
					$78^2 - 73^2$
					$378^2 - 377^2$
					$1·6! + 1·4! + 1·3! + 2·2! + 1!$
756	1 011 110 100 1001000	$2^2·3^3·7$	$10^2 + 16^2 + 20^2$	$4^2 + 16^2 + 22^2$	$6^2 + 12^2 + 24^2$
			$3^3 + 9^3$	$30^2 - 12^2$	$34^2 - 20^2$
					$66^2 - 60^2$
					$190^2 - 188^2$
					$1·6! + 1·4! + 2·3!$
757	1 011 110 101 1001001	prime	$9^2 + 26^2$	$12^2 + 17^2 + 18^2$	$9^2 + 10^2 + 24^2$
			$379^2 - 378^2$	$1·6! + 1·4! + 2·3! + 1!$	$1^3 + 3^3 + 9^3$

(continued)

Table III (continued)

758	1 011 110 110 1001002	2·379	$6^2 + 19^2 + 19^2$	$11^2 + 14^2 + 21^2$	$7^2 + 15^2 + 22^2$	$2^2 + 15^2 + 23^2$
			$1^2 + 9^2 + 26^2$	$2^2 + 5^2 + 27^2$	$1·6! + 1·4! + 2·3! + 1·2!$	
759	1 011 110 111 1001010	3·11·23	$28^2 - 5^2$	$40^2 - 29^2$	$128^2 - 125^2$	$380^2 - 379^2$
			$1·6! + 1·4! + 2·3! + 1·2! + 1!$			
760	1 011 111 000 1001011	$2^3·5·19$	$6^2 + 18^2 + 20^2$	$29^2 - 9^2$	$43^2 - 33^2$	$97^2 - 93^2$
			$191^2 - 189^2$	$1·6! + 1·4! + 2·3! + 2·2!$	$q(37)$	
761	1 011 111 001 1001012	prime	$19^2 + 20^2$	$12^2 + 16^2 + 19^2$	$8^2 + 16^2 + 21^2$	$9^2 + 14^2 + 22^2$
			$6^2 + 14^2 + 23^2$	$8^2 + 11^2 + 24^2$	$4^2 + 13^2 + 24^2$	$6^2 + 10^2 + 25^2$
			$6^2 + 7^2 + 26^2$	$2^2 + 9^2 + 26^2$	$4^2 + 4^2 + 27^2$	$381^2 - 380^2$
			$1·6! + 1·4! + 2·3! + 2·2! + 1!$			
762	1 011 111 010 1001020	2·3·127	$1^2 + 19^2 + 20^2$	$8^2 + 13^2 + 23^2$	$4^2 + 11^2 + 25^2$	$5^3 + 5^3 + 8^3$
			$1·6! + 1·4! + 3·3!$			
763	1 011 111 011 1001021	7·109	$3^2 + 15^2 + 23^2$	$3^2 + 5^2 + 27^2$	$58^2 - 51^2$	$382^2 - 381^2$
			$1·6! + 1·4! + 3·3! + 1!$			
764	1 011 111 100 1001022	$2^2·191$	$2^3 + 3^3 + 9^3$	$192^2 - 190^2$	$1·6! + 1·4! + 3·3! + 1·2!$	
765	1 011 111 101 1001100	$3^2·5·17$	$18^2 + 21^2$	$6^2 + 27^2$	$13^2 + 14^2 + 20^2$	$2^2 + 19^2 + 20^2$
			$5^2 + 16^2 + 22^2$	$5^2 + 8^2 + 26^2$	$31^2 - 14^2$	$33^2 - 18^2$
			$79^2 - 74^2$	$129^2 - 126^2$	$383^2 - 382^2$	$1·6! + 1·4! + 3·3! + 1·2! + 1!$
766	1 011 111 110 1001101	2·383	$9^2 + 18^2 + 19^2$	$10^2 + 15^2 + 21^2$	$6^2 + 17^2 + 21^2$	$1^2 + 18^2 + 21^2$
			$3^2 + 9^2 + 26^2$	$1^2 + 6^2 + 27^2$	$1·6! + 1·4! + 3·3! + 2·2!$	
767	1 011 111 111 1001102	13·59	$36^2 - 23^2$	$384^2 - 383^2$	$1·6! + 1·4! + 3·3! + 2·2! + 1!$	
768	1 100 000 000 1001110	$2^8·3$	$16^2 + 16^2 + 16^2$	$4^4 + 4^4 + 4^4$	$28^2 - 4^2$	$32^2 - 16^2$
			$52^2 - 44^2$	$67^2 - 61^2$	$98^2 - 94^2$	$193^2 - 191^2$
			$1·6! + 2·4!$			
769	1 100 000 001 1001111	prime	$12^2 + 25^2$	$11^2 + 18^2 + 18^2$	$12^2 + 15^2 + 20^2$	$2^2 + 18^2 + 21^2$
			$7^2 + 12^2 + 24^2$	$2^2 + 6^2 + 27^2$	$385^2 - 384^2$	$1·6! + 2·4! + 1!$
770	1 100 000 010 1001112	$2·5·7·11$	$15^2 + 16^2 + 17^2$	$9^2 + 17^2 + 20^2$	$3^2 + 19^2 + 20^2$	$4^2 + 15^2 + 23^2$
			$5^2 + 13^2 + 24^2$	$8^2 + 9^2 + 25^2$	$1^2 + 12^2 + 25^2$	$4^2 + 5^2 + 27^2$
			$1·6! + 2·4! + 1·2!$			
771	1 100 000 011 1001120	3·257	$11^2 + 17^2 + 19^2$	$7^2 + 19^2 + 19^2$	$11^2 + 11^2 + 23^2$	$5^2 + 11^2 + 25^2$
			$130^2 - 127^2$	$386^2 - 385^2$	$1·6! + 2·4! + 1·2! + 1!$	
772	1 100 000 100 1001121	$2^2·193$	$14^2 + 24^2$	$12^2 + 12^2 + 22^2$	$194^2 - 192^2$	$1·6! + 2·4! + 2·2!$

(continued)

Table III (continued)

773	1 100 000 101 1001122	prime $1^2 + 14^2 + 24^2$ $1 \cdot 6! + 2 \cdot 4! + 2 \cdot 2! + 1!$	$17^2 + 22^2$ $2^2 + 12^2 + 25^2$	$7^2 + 18^2 + 20^2$ $4^2 + 9^2 + 26^2$	$8^2 + 15^2 + 22^2$ $387^2 - 386^2$	$10^2 + 12^2 + 23^2$
774	1 100 000 110 1001200	$2 \cdot 3^2 \cdot 43$ $3^2 + 6^2 + 27^2$	$14^2 + 17^2 + 17^2$ $1 \cdot 6! + 2 \cdot 4! + 1 \cdot 3!$	$15^2 + 15^2 + 18^2$ $7^2 + 10^2 + 25^2$	$3^2 + 18^2 + 21^2$ $7^2 + 7^2 + 26^2$	$11^2 + 13^2 + 22^2$
775	1 100 000 111 1001201	$5^2 \cdot 31$ $1 \cdot 6! + 2 \cdot 4! + 1 \cdot 3! + 1!$	$6^3 + 6^3 + 7^3$	$28^2 - 3^2$ $80^2 - 75^2$	$388^2 - 387^2$	
776	1 100 001 000 1001202	$2^3 \cdot 97$ $1 \cdot 6! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$10^2 + 26^2$ $2^2 + 14^2 + 24^2$	$14^2 + 16^2 + 18^2$ $6^2 + 8^2 + 26^2$	$6^2 + 16^2 + 22^2$ $99^2 - 95^2$	$10^2 + 10^2 + 24^2$ $195^2 - 193^2$
777	1 100 001 001 1001210	$3 \cdot 7 \cdot 37$ $29^2 - 8^2$	$11^2 + 16^2 + 20^2$ $59^2 - 52^2$	$4^2 + 19^2 + 20^2$ $131^2 - 128^2$	$2^2 + 17^2 + 22^2$ $389^2 - 388^2$	$1^2 + 10^2 + 26^2$ $1 \cdot 6! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$
778	1 100 001 010 1001211	$2 \cdot 389$ $1 \cdot 6! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$	$7^2 + 27^2$	$9^2 + 16^2 + 21^2$ $9^2 + 11^2 + 24^2$	$3^2 + 12^2 + 25^2$	
779	1 100 001 011 1001212	$19 \cdot 41$ $1 \cdot 6! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$	$13^2 + 13^2 + 21^2$ $5^2 + 5^2 + 27^2$	$7^2 + 17^2 + 21^2$ $1^2 + 7^2 + 27^2$	$9^2 + 13^2 + 23^2$ $30^2 - 11^2$	$5^2 + 15^2 + 23^2$ $390^2 - 389^2$
780	1 100 001 100 1001220	$2^2 \cdot 3 \cdot 5 \cdot 13$ $44^2 - 34^2$	$\sum_{n=1}^{39} n$ $68^2 - 62^2$	$10^2 + 14^2 + 22^2$ $196^2 - 194^2$	$2^2 + 10^2 + 26^2$ $\binom{40}{2}$	$28^2 - 2^2$ $1 \cdot 6! + 2 \cdot 4! + 2 \cdot 3!$
781	1 100 001 101 1001221	$11 \cdot 71$ $4^2 + 6^2 + 27^2$	$12^2 + 14^2 + 21^2$ $41^2 - 30^2$	$4^2 + 18^2 + 21^2$ $391^2 - 390^2$	$6^2 + 13^2 + 24^2$ $4^5 - 3^5$	$3^2 + 14^2 + 24^2$ $1 \cdot 6! + 2 \cdot 4! + 2 \cdot 3! + 1!$
782	1 100 001 110 1001222	$2 \cdot 17 \cdot 23$ $5^2 + 9^2 + 26^2$	$13^2 + 17^2 + 18^2$ $2^2 + 7^2 + 27^2$	$14^2 + 15^2 + 19^2$ $1 \cdot 6! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$	$3^2 + 17^2 + 22^2$	$6^2 + 11^2 + 25^2$
783	1 100 001 111 1002000	$3^3 \cdot 29$ $1 \cdot 6! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$	$3^3 + 3^3 + 9^3$	$28^2 - 1^2$ $48^2 - 39^2$	$132^2 - 129^2$ $392^2 - 391^2$	
784	1 100 010 000 1002001	$2^4 \cdot 7^2$ $197^2 - 195^2$	28^2 $10^3 - 6^3$	$8^2 + 12^2 + 24^2$ $1 \cdot 6! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$	$\sum_{n=1}^7 n^3$ $35^2 - 21^2$	$53^2 - 45^2$ $100^2 - 96^2$
785	1 100 010 001 1002002	$5 \cdot 157$ $3^2 + 10^2 + 26^2$	$16^2 + 23^2$ $81^2 - 76^2$	$1^2 + 28^2$ $393^2 - 392^2$	$10^2 + 18^2 + 19^2$ $1 \cdot 6! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$	$4^2 + 12^2 + 25^2$
786	1 100 010 010 1002010	$2 \cdot 3 \cdot 131$ $1^2 + 1^2 + 28^2$	$13^2 + 16^2 + 19^2$ $1 \cdot 6! + 2 \cdot 4! + 3 \cdot 3!$	$8^2 + 19^2 + 19^2$	$5^2 + 19^2 + 20^2$	$1^2 + 16^2 + 23^2$
787	1 100 010 011 1002011	prime $394^2 - 393^2$	$11^2 + 15^2 + 21^2$ $1 \cdot 6! + 2 \cdot 4! + 3 \cdot 3! + 1!$	$9^2 + 9^2 + 25^2$	$3^2 + 7^2 + 27^2$	$3^4 + 3^4 + 5^4$

(continued)

Table III (continued)

788	1 100 010 100 1002012	$2^2 \cdot 197$	$2^2 + 28^2$	$8^2 + 18^2 + 20^2$	$4^2 + 14^2 + 24^2$	$198^2 - 196^2$
		$1 \cdot 6! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$				
789	1 100 010 101 1002020	$3 \cdot 263$	$10^2 + 17^2 + 20^2$	$7^2 + 16^2 + 22^2$	$4^2 + 17^2 + 22^2$	$8^2 + 14^2 + 23^2$
		$2^2 + 16^2 + 23^2$	$8^2 + 10^2 + 25^2$	$7^2 + 8^2 + 26^2$	$1^2 + 2^2 + 28^2$	
		$133^2 - 130^2$	$395^2 - 394^2$	$1 \cdot 6! + 2 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$		
790	1 100 010 110 1002021	$2 \cdot 5 \cdot 79$	$5^2 + 18^2 + 21^2$	$9^2 + 15^2 + 22^2$	$6^2 + 15^2 + 23^2$	$5^2 + 6^2 + 27^2$
		$1 \cdot 6! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$				
791	1 100 010 111 1002022	$7 \cdot 113$	$60^2 - 53^2$	$396^2 - 395^2$	$1 \cdot 6! + 2 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$	
792	1 100 011 000 1002100	$2^3 \cdot 3^2 \cdot 11$	$12^2 + 18^2 + 18^2$	$14^2 + 14^2 + 20^2$	$4^2 + 10^2 + 26^2$	$2^2 + 2^2 + 28^2$
		$4^3 + 6^3 + 8^3$	$29^2 - 7^2$	$31^2 - 13^2$	$39^2 - 27^2$	$69^2 - 63^2$
		$199^2 - 197^2$	$\binom{12}{5}$	$1 \cdot 6! + 3 \cdot 4!$	$p(21)$	
793	1 100 011 001 1002101	$13 \cdot 61$	$8^2 + 27^2$	$3^2 + 28^2$	$6^2 + 9^2 + 26^2$	$4^3 + 9^3$
		$37^2 - 24^2$	$397^2 - 396^2$	$1 \cdot 6! + 3 \cdot 4! + 1!$		
794	1 100 011 010 1002102	$2 \cdot 397$	$13^2 + 25^2$	$12^2 + 17^2 + 19^2$	$13^2 + 15^2 + 20^2$	$8^2 + 17^2 + 21^2$
		$11^2 + 12^2 + 23^2$	$3^2 + 16^2 + 23^2$	$7^2 + 13^2 + 24^2$	$5^2 + 12^2 + 25^2$	
		$4^2 + 7^2 + 27^2$	$1^2 + 8^2 + 27^2$	$1^2 + 3^2 + 28^2$	$1^3 + 4^3 + 9^3$	
		$1^6 + 2^6 + 3^6$	$1 \cdot 6! + 3 \cdot 4! + 1 \cdot 2!$			
795	1 100 011 011 1002110	$3 \cdot 5 \cdot 53$	$7^2 + 11^2 + 25^2$	$1^2 + 13^2 + 25^2$	$34^2 - 19^2$	$82^2 - 77^2$
		$134^2 - 131^2$	$398^2 - 397^2$	$1 \cdot 6! + 3 \cdot 4! + 1 \cdot 2! + 1!$		
796	1 100 011 100 1002111	$2^2 \cdot 199$	$200^2 - 198^2$	$1 \cdot 6! + 3 \cdot 4! + 2 \cdot 2!$		
797	1 100 011 101 1002112	prime	$11^2 + 26^2$	$6^2 + 19^2 + 20^2$	$10^2 + 16^2 + 21^2$	$12^2 + 13^2 + 22^2$
			$10^2 + 11^2 + 24^2$	$5^2 + 14^2 + 24^2$	$2^2 + 8^2 + 27^2$	$2^2 + 3^2 + 28^2$
			$399^2 - 398^2$	$1 \cdot 6! + 3 \cdot 4! + 2 \cdot 2! + 1!$		
798	1 100 011 110 1002120	$2 \cdot 3 \cdot 7 \cdot 19$	$5^2 + 17^2 + 22^2$	$10^2 + 13^2 + 23^2$	$2^2 + 13^2 + 25^2$	
			$1^2 + 11^2 + 26^2$	$1 \cdot 6! + 3 \cdot 4! + 1 \cdot 3!$		
799	1 100 011 111 1002121	$17 \cdot 47$	$32^2 - 15^2$	$400^2 - 399^2$	$1 \cdot 6! + 3 \cdot 4! + 1 \cdot 3! + 1!$	
800	1 100 100 000 1002122	$2^5 \cdot 5^2$	$20^2 + 20^2$	$4^2 + 28^2$	$12^2 + 16^2 + 20^2$	$30^2 - 10^2$
		$45^2 - 35^2$	$54^2 - 46^2$	$102^2 - 98^2$	$201^2 - 199^2$	$33^2 - 17^2$
			$1 \cdot 6! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$			
801	1 100 100 001 1002200	$3^2 \cdot 89$	$15^2 + 24^2$	$16^2 + 16^2 + 17^2$	$1^2 + 20^2 + 20^2$	$6^2 + 18^2 + 21^2$
		$11^2 + 14^2 + 22^2$	$4^2 + 16^2 + 23^2$	$9^2 + 12^2 + 24^2$	$5^2 + 10^2 + 26^2$	
		$2^2 + 11^2 + 26^2$	$6^2 + 6^2 + 27^2$	$1^2 + 4^2 + 28^2$	$2^3 + 4^3 + 9^3$	$49^2 - 40^2$
		$135^2 - 132^2$	$401^2 - 400^2$	$1 \cdot 6! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$		
802	1 100 100 010 1002201	$2 \cdot 401$	$19^2 + 21^2$	$1^2 + 15^2 + 24^2$	$3^2 + 8^2 + 27^2$	$3^2 + 3^2 + 28^2$
		$1 \cdot 6! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$				

(continued)

Table III (continued)

803	1 100 100 011 1002202	11·73 $3^2 + 13^2 + 25^2$ $1·6! + 3·4! + 1·3! + 2·2! + 1!$	$15^2 + 17^2 + 17^2$ $5^2 + 7^2 + 27^2$	$9^2 + 19^2 + 19^2$ $42^2 - 31^2$	$1^2 + 19^2 + 21^2$ $402^2 - 401^2$	$7^2 + 15^2 + 23^2$
804	1 100 100 100 1002210	$2^2·3·67$ $70^2 - 64^2$	$2^2 + 20^2 + 20^2$ $202^2 - 200^2$	$8^2 + 16^2 + 22^2$ $1·6! + 3·4! + 2·3!$	$8^2 + 8^2 + 26^2$	$2^2 + 4^2 + 28^2$
805	1 100 100 101 1002211	5·7·23 $29^2 - 6^2$	$15^2 + 16^2 + 18^2$ $61^2 - 54^2$	$9^2 + 18^2 + 20^2$ $83^2 - 78^2$	$2^2 + 15^2 + 24^2$ $403^2 - 402^2$	$6^2 + 12^2 + 25^2$ $1·6! + 3·4! + 2·3! + 1!$
806	1 100 100 110 1002212	2·13·31 $9^2 + 10^2 + 25^2$	$11^2 + 18^2 + 19^2$ $7^2 + 9^2 + 26^2$	$13^2 + 14^2 + 21^2$ $3^2 + 11^2 + 26^2$	$2^2 + 19^2 + 21^2$ $1·6! + 3·4! + 2·3! + 1·2!$	$9^2 + 14^2 + 23^2$
807	1 100 100 111 1002220	3·269 $136^2 - 133^2$	$136^2 - 133^2$	$404^2 - 403^2$	$1·6! + 3·4! + 2·3! + 1·2! + 1!$	
808	1 100 101 000 1002221	$2^3·101$ $1·6! + 3·4! + 2·3! + 2·2!$	$18^2 + 22^2$	$6^2 + 14^2 + 24^2$	$103^2 - 99^2$	$203^2 - 201^2$
809	1 100 101 001 1002222	prime $6^2 + 17^2 + 22^2$ $3^2 + 4^2 + 28^2$	$5^2 + 28^2$ $1^2 + 18^2 + 22^2$ $405^2 - 404^2$	$14^2 + 17^2 + 18^2$ $8^2 + 13^2 + 24^2$ $1·6! + 3·4! + 2·3! + 2·2! + 1!$	$3^2 + 20^2 + 20^2$ $4^2 + 8^2 + 27^2$	$10^2 + 15^2 + 22^2$
810	1 100 101 010 1010000	$2·3^4·5$ $5^2 + 16^2 + 23^2$ $1^2 + 5^2 + 28^2$	$9^2 + 27^2$ $3^2 + 15^2 + 24^2$ $1·6! + 3·4! + 3·3!$	$11^2 + 17^2 + 20^2$ $8^2 + 11^2 + 25^2$	$7^2 + 19^2 + 20^2$ $4^2 + 13^2 + 25^2$	$12^2 + 15^2 + 21^2$
811	1 100 101 011 1010001	prime $5^3 + 7^3 + 7^3$	$15^2 + 15^2 + 19^2$ $406^2 - 405^2$	$9^2 + 17^2 + 21^2$ $1·6! + 3·4! + 3·3! + 1!$	$3^2 + 19^2 + 21^2$	$1^2 + 9^2 + 27^2$
812	1 100 101 100 1010002	$2^2·7·29$ $1·6! + 3·4! + 3·3! + 1·2!$	$2^2 + 18^2 + 22^2$	$6^2 + 10^2 + 26^2$	$36^2 - 22^2$	$204^2 - 202^2$
813	1 100 101 101 1010010	3·271 $407^2 - 406^2$	$14^2 + 16^2 + 19^2$ $1·6! + 3·4! + 3·3! + 1·2! + 1!$	$4^2 + 11^2 + 26^2$	$2^2 + 5^2 + 28^2$	$137^2 - 134^2$
814	1 100 101 110 1010011	2·11·37 $1·6! + 3·4! + 3·3! + 2·2!$	$7^2 + 18^2 + 21^2$	$6^2 + 7^2 + 27^2$	$2^2 + 9^2 + 27^2$	
815	1 100 101 111 1010012	5·163 1010012	$84^2 - 79^2$	$408^2 - 407^2$	$1·6! + 3·4! + 3·3! + 2·2! + 1!$	
816	1 100 110 000 1010020	$2^4·3·17$ $55^2 - 47^2$	$4^2 + 20^2 + 20^2$ $71^2 - 65^2$	$4^2 + 4^2 + 28^2$ $104^2 - 100^2$	$29^2 - 5^2$ $205^2 - 203^2$	$40^2 - 28^2$ $\binom{18}{3} 1·6! + 4·4!$
817	1 100 110 001 1010021	19·43 $31^2 - 12^2$	$13^2 + 18^2 + 18^2$ $409^2 - 408^2$	$3^2 + 18^2 + 22^2$ $17^3 - 16^3$	$12^2 + 12^2 + 23^2$ $1·6! + 4·4! + 1!$	$4^2 + 15^2 + 24^2$

(continued)

Table III (continued)

818	1 100 110 010 1010022	2·409 $17^2 + 23^2$ $11^2 + 16^2 + 21^2$ $4^2 + 19^2 + 21^2$ $8^2 + 15^2 + 23^2$ $11^2 + 11^2 + 24^2$ $7^2 + 12^2 + 25^2$ $5^2 + 8^2 + 27^2$ $3^2 + 5^2 + 28^2$ $1·6! + 4·4! + 1·2!$
819	1 100 110 011 1010100	$3^2·7·13$ $13^2 + 17^2 + 19^2$ $11^2 + 13^2 + 23^2$ $1^2 + 17^2 + 23^2$ $5^2 + 13^2 + 25^2$ $3^2 + 9^2 + 27^2$ $\sum_{n=1}^{13} n^2$ $30^2 - 9^2$ $38^2 - 25^2$ $50^2 - 41^2$ $62^2 - 55^2$ $138^2 - 135^2$ $410^2 - 409^2$ $11^3 - 8^3$ $1·6! + 4·4! + 1·2! + 1!$
820	1 100 110 100 1010101	$2^2·5·41$ $\sum_{n=1}^{40} n$ $12^2 + 26^2$ $6^2 + 28^2$ $10^2 + 12^2 + 24^2$ $3^3 + 4^3 + 9^3$ $46^2 - 36^2$ $206^2 - 204^2$ $\binom{41}{2}$ $1·6! + 4·4! + 2·2!$
821	1 100 110 101 1010102	prime $14^2 + 25^2$ $14^2 + 15^2 + 20^2$ $9^2 + 16^2 + 22^2$ $6^2 + 16^2 + 23^2$ $7^2 + 14^2 + 24^2$ $8^2 + 9^2 + 26^2$ $1^2 + 12^2 + 26^2$ $1^2 + 6^2 + 28^2$ $411^2 - 410^2$ $1·6! + 4·4! + 2·2! + 1!$
822	1 100 110 110 1010110	$2·3·137$ $10^2 + 19^2 + 19^2$ $13^2 + 13^2 + 22^2$ $7^2 + 17^2 + 22^2$ $2^2 + 17^2 + 23^2$ $1^2 + 14^2 + 25^2$ $5^2 + 11^2 + 26^2$ $1·6! + 4·4! + 1·3!$
823	1 100 110 111 1010111	prime $412^2 - 411^2$ $1·6! + 4·4! + 1·3! + 1!$
824	1 100 111 000 1010112	$2^3·103$ $10^2 + 18^2 + 20^2$ $12^2 + 14^2 + 22^2$ $4^2 + 18^2 + 22^2$ $2^2 + 12^2 + 26^2$ $2^2 + 6^2 + 28^2$ $105^2 - 101^2$ $207^2 - 205^2$ $1·6! + 4·4! + 1·3! + 1·2!$
825	1 100 111 001 1010120	$3·5^2·11$ $13^2 + 16^2 + 20^2$ $8^2 + 19^2 + 20^2$ $5^2 + 20^2 + 20^2$ $10^2 + 14^2 + 23^2$ $10^2 + 10^2 + 25^2$ $2^2 + 14^2 + 25^2$ $7^2 + 10^2 + 26^2$ $4^2 + 5^2 + 28^2$ $29^2 - 4^2$ $35^2 - 20^2$ $43^2 - 32^2$ $85^2 - 80^2$ $139^2 - 136^2$ $413^2 - 412^2$ $1·6! + 4·4! + 1·3! + 1·2! + 1!$
826	1 100 111 010 1010121	$2·7·59$ $9^2 + 13^2 + 24^2$ $5^2 + 15^2 + 24^2$ $4^2 + 9^2 + 27^2$ $1·6! + 4·4! + 1·3! + 2·2!$
827	1 100 111 011 1010122	prime $5^2 + 19^2 + 21^2$ $3^2 + 17^2 + 23^2$ $9^2 + 11^2 + 25^2$ $7^2 + 7^2 + 27^2$ $414^2 - 413^2$ $1·6! + 4·4! + 1·3! + 2·2! + 1!$
828	1 100 111 100 1010200	$2^2·3^2·23$ $32^2 - 14^2$ $72^2 - 66^2$ $208^2 - 206^2$ $1·6! + 4·4! + 2·3!$
829	1 100 111 101 1010201	prime $10^2 + 27^2$ $12^2 + 18^2 + 19^2$ $8^2 + 18^2 + 21^2$ $3^2 + 12^2 + 26^2$ $6^2 + 8^2 + 27^2$ $3^2 + 6^2 + 28^2$ $415^2 - 414^2$ $1·6! + 4·4! + 2·3! + 1!$
830	1 100 111 110 1010202	$2·5·83$ $10^2 + 17^2 + 21^2$ $11^2 + 15^2 + 22^2$ $6^2 + 13^2 + 25^2$ $3^2 + 14^2 + 25^2$ $1^2 + 10^2 + 27^2$ $1·6! + 4·4! + 2·3! + 1·2!$
831	1 100 111 111 1010210	$3·277$ $140^2 - 137^2$ $416^2 - 415^2$ $1·6! + 4·4! + 2·3! + 1·2! + 1!$
832	1 101 000 000 1010211	$2^6·13$ $16^2 + 24^2$ $29^2 - 3^2$ $34^2 - 18^2$ $56^2 - 48^2$ $106^2 - 102^2$ $209^2 - 207^2$ $1·6! + 4·4! + 2·3! + 2·2!$

(continued)

Table III (continued)

833	1 101 000 001 1010212	$7^2 \cdot 17$ $7^2 + 28^2$ $12^2 + 17^2 + 20^2$ $14^2 + 14^2 + 21^2$ $5^2 + 18^2 + 22^2$ $1^2 + 16^2 + 24^2$ $8^2 + 12^2 + 25^2$ $6^2 + 11^2 + 26^2$ $2^2 + 10^2 + 27^2$ $33^2 - 16^2$ $63^2 - 56^2$ $417^2 - 416^2$ $1 \cdot 6! + 4 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$
834	1 101 000 010 1010220	$2 \cdot 3 \cdot 139$ $16^2 + 17^2 + 17^2$ $7^2 + 16^2 + 23^2$ $4^2 + 17^2 + 23^2$ $5^2 + 5^2 + 28^2$ $1^2 + 7^2 + 28^2$ $1 \cdot 6! + 4 \cdot 4! + 3 \cdot 3!$
835	1 101 000 011 1010221	$5 \cdot 167$ $13^2 + 15^2 + 21^2$ $9^2 + 15^2 + 23^2$ $5^2 + 9^2 + 27^2$ $86^2 - 81^2$ $418^2 - 417^2$ $1 \cdot 6! + 4 \cdot 4! + 3 \cdot 3! + 1!$
836	1 101 000 100 1010222	$2^2 \cdot 11 \cdot 19$ $16^2 + 16^2 + 18^2$ $6^2 + 20^2 + 20^2$ $8^2 + 14^2 + 24^2$ $2^2 + 16^2 + 24^2$ $4^2 + 12^2 + 26^2$ $4^2 + 6^2 + 28^2$ $30^2 - 8^2$ $210^2 - 208^2$ $1 \cdot 6! + 4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$
837	1 101 000 101 1011000	$3^3 \cdot 31$ $8^2 + 17^2 + 22^2$ $6^2 + 15^2 + 24^2$ $4^2 + 14^2 + 25^2$ $2^2 + 7^2 + 28^2$ $29^2 - 2^2$ $51^2 - 42^2$ $141^2 - 138^2$ $419^2 - 418^2$ $1 \cdot 6! + 4 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$
838	1 101 000 110 1011001	$2 \cdot 419$ $15^2 + 17^2 + 18^2$ $6^2 + 19^2 + 21^2$ $9^2 + 9^2 + 26^2$ $3^2 + 10^2 + 27^2$ $1 \cdot 6! + 4 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$
839	1 101 000 111 1011002	prime $420^2 - 419^2$ $1 \cdot 6! + 4 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$
840	1 101 001 000 1011010	$2^3 \cdot 3 \cdot 5 \cdot 7$ $10^2 + 16^2 + 22^2$ $8^2 + 10^2 + 26^2$ $29^2 - 1^2$ $31^2 - 11^2$ $37^2 - 23^2$ $41^2 - 29^2$ $47^2 - 37^2$ $73^2 - 67^2$ $107^2 - 103^2$ $211^2 - 209^2$
841	1 101 001 001 1011011	29^2 $20^2 + 21^2$ $12^2 + 16^2 + 21^2$ $11^2 + 12^2 + 24^2$ $3^2 + 16^2 + 24^2$ $421^2 - 420^2$ $1 \cdot 6! + 1 \cdot 5! + 1!$
842	1 101 001 010 1011012	$2 \cdot 421$ $1^2 + 29^2$ $15^2 + 16^2 + 19^2$ $9^2 + 19^2 + 20^2$ $1^2 + 20^2 + 21^2$ $12^2 + 13^2 + 23^2$ $7^2 + 8^2 + 27^2$ $3^2 + 7^2 + 28^2$ $1 \cdot 6! + 1 \cdot 5! + 1 \cdot 2!$
843	1 101 001 011 1011020	$3 \cdot 281$ $11^2 + 19^2 + 19^2$ $5^2 + 17^2 + 23^2$ $7^2 + 13^2 + 25^2$ $1^2 + 1^2 + 29^2$ $142^2 - 139^2$ $422^2 - 421^2$ $1 \cdot 6! + 1 \cdot 5! + 1 \cdot 2! + 1!$
844	1 101 001 100 1011021	$2^2 \cdot 211$ $14^2 + 18^2 + 18^2$ $6^2 + 18^2 + 22^2$ $212^2 - 210^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 2!$
845	1 101 001 101 1011022	$5 \cdot 13^2$ $19^2 + 22^2$ $13^2 + 26^2$ $2^2 + 29^2$ $11^2 + 18^2 + 20^2$ $2^2 + 20^2 + 21^2$ $10^2 + 13^2 + 24^2$ $5^2 + 12^2 + 26^2$ $4^2 + 10^2 + 27^2$ $5^2 + 6^2 + 28^2$ $39^2 - 26^2$ $87^2 - 82^2$ $423^2 - 422^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 2! + 1!$
846	1 101 001 110 1011100	$2 \cdot 3^2 \cdot 47$ $14^2 + 17^2 + 19^2$ $9^2 + 18^2 + 21^2$ $1^2 + 19^2 + 22^2$ $11^2 + 14^2 + 23^2$ $10^2 + 11^2 + 25^2$ $5^2 + 14^2 + 25^2$ $7^2 + 11^2 + 26^2$ $1^2 + 13^2 + 26^2$ $6^2 + 9^2 + 27^2$ $1^2 + 2^2 + 29^2$ $1 \cdot 6! + 1 \cdot 5! + 1 \cdot 3!$
847	1 101 001 111 1011101	$7 \cdot 11^2$ $44^2 - 33^2$ $64^2 - 57^2$ $424^2 - 423^2$ $1 \cdot 6! + 1 \cdot 5! + 1 \cdot 3! + 1!$ r(29)

(continued)

Table III (continued)

848	1 101 010 000 1011102	$2^4 \cdot 53$	$8^2 + 28^2$	$4^2 + 16^2 + 24^2$	$57^2 - 49^2$	$108^2 - 104^2$	$213^2 - 211^2$
		$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 3! + 1 \cdot 2!$					
849	1 101 010 001 1011110	$3 \cdot 283$	$7^2 + 20^2 + 20^2$	$13^2 + 14^2 + 22^2$	$2^2 + 19^2 + 22^2$	$8^2 + 16^2 + 23^2$	$2^2 + 13^2 + 26^2$
		$4^2 + 7^2 + 28^2$	$1^2 + 8^2 + 28^2$	$2^2 + 2^2 + 29^2$	$143^2 - 140^2$	$425^2 - 424^2$	
		$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 3! + 1 \cdot 2! + 1!$					
850	1 101 010 010 1011111	$2 \cdot 5^2 \cdot 17$	$15^2 + 25^2$	$11^2 + 27^2$	$3^2 + 29^2$	$15^2 + 15^2 + 20^2$	$3^2 + 20^2 + 21^2$
		$7^2 + 15^2 + 24^2$					
		$9^2 + 12^2 + 25^2$					
		$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 3! + 2 \cdot 2!$					
851	1 101 010 011 1011112	$23 \cdot 37$	$11^2 + 17^2 + 21^2$	$7^2 + 19^2 + 21^2$	$1^2 + 15^2 + 25^2$	$1^2 + 11^2 + 27^2$	$1^2 + 3^2 + 29^2$
		$30^2 - 7^2$	$426^2 - 425^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 3! + 2 \cdot 2! + 1!$			
852	1 101 010 100 1011120	$2^2 \cdot 3 \cdot 71$	$14^2 + 16^2 + 20^2$	$2^2 + 8^2 + 28^2$	$74^2 - 68^2$	$214^2 - 212^2$	
		$1 \cdot 6! + 1 \cdot 5! + 2 \cdot 3!$					
853	1 101 010 101 1011121	prime	$18^2 + 23^2$	$12^2 + 15^2 + 22^2$	$9^2 + 14^2 + 24^2$	$5^3 + 6^3 + 8^3$	
		$427^2 - 426^2$					
		$1 \cdot 6! + 1 \cdot 5! + 2 \cdot 3! + 1!$					
854	1 101 010 110 1011122	$2 \cdot 7 \cdot 61$	$13^2 + 18^2 + 19^2$	$9^2 + 17^2 + 22^2$	$3^2 + 19^2 + 22^2$	$10^2 + 15^2 + 23^2$	$6^2 + 17^2 + 23^2$
		$1^2 + 18^2 + 23^2$	$2^2 + 15^2 + 25^2$	$3^2 + 13^2 + 26^2$	$5^2 + 10^2 + 27^2$	$2^2 + 11^2 + 27^2$	$2^2 + 3^2 + 29^2$
		$5^3 + 9^3$	$1 \cdot 6! + 1 \cdot 5! + 2 \cdot 3! + 1 \cdot 2!$				
855	1 101 010 111 1011200	$3^2 \cdot 5 \cdot 19$	$7^3 + 8^3$	$1^3 + 5^3 + 9^3$	$32^2 - 13^2$	$36^2 - 21^2$	$52^2 - 43^2$
		$88^2 - 83^2$	$144^2 - 141^2$	$428^2 - 427^2$	$1 \cdot 6! + 1 \cdot 5! + 2 \cdot 3! + 1 \cdot 2! + 1!$		
856	1 101 011 000 1011201	$2^3 \cdot 107$	$6^2 + 12^2 + 26^2$	$6^2 + 6^2 + 28^2$	$1^3 + 7^3 + 8^3$	$109^2 - 105^2$	
		$215^2 - 213^2$					
		$1 \cdot 6! + 1 \cdot 5! + 2 \cdot 3! + 2 \cdot 2!$					
857	1 101 011 001 1011202	prime	$4^2 + 29^2$	$4^2 + 20^2 + 21^2$	$7^2 + 18^2 + 22^2$	$2^2 + 18^2 + 23^2$	$5^2 + 16^2 + 24^2$
		$6^2 + 14^2 + 25^2$	$9^2 + 10^2 + 26^2$	$8^2 + 8^2 + 27^2$	$3^2 + 8^2 + 28^2$	$4^3 + 4^3 + 9^3$	
		$2^6 + 2^6 + 3^6$	$429^2 - 428^2$	$1 \cdot 6! + 1 \cdot 5! + 2 \cdot 3! + 2 \cdot 2! + 1!$			
858	1 101 011 010 1011210	$2 \cdot 3 \cdot 11 \cdot 13$	$13^2 + 17^2 + 20^2$	$8^2 + 13^2 + 25^2$	$5^2 + 7^2 + 28^2$	$1^2 + 4^2 + 29^2$	
		$1 \cdot 6! + 1 \cdot 5! + 3 \cdot 3!$					
859	1 101 011 011 1011211	prime	$3^2 + 15^2 + 25^2$	$7^2 + 9^2 + 27^2$	$3^2 + 11^2 + 27^2$	$3^2 + 3^2 + 29^2$	
		$430^2 - 429^2$					
		$1 \cdot 6! + 1 \cdot 5! + 3 \cdot 3! + 1!$					
860	1 101 011 100 1011212	$2^2 \cdot 5 \cdot 43$	$48^2 - 38^2$	$216^2 - 214^2$	$1 \cdot 6! + 1 \cdot 5! + 3 \cdot 3! + 1 \cdot 2!$		
861	1 101 011 101 1011220	$3 \cdot 7 \cdot 41$	$\sum_{n=1}^{41} n$	$10^2 + 19^2 + 20^2$	$11^2 + 16^2 + 22^2$	$4^2 + 19^2 + 22^2$	$8^2 + 11^2 + 26^2$
		$4^2 + 13^2 + 26^2$	$2^2 + 4^2 + 29^2$	$31^2 - 10^2$	$65^2 - 58^2$	$145^2 - 142^2$	
		$431^2 - 430^2$	$\binom{42}{2}$	$1 \cdot 6! + 1 \cdot 5! + 3 \cdot 3! + 1 \cdot 2! + 1!$			
862	1 101 011 110 1011221	$2 \cdot 431$	$14^2 + 15^2 + 21^2$	$3^2 + 18^2 + 23^2$	$2^3 + 5^3 + 9^3$		
		$1 \cdot 6! + 1 \cdot 5! + 3 \cdot 3! + 2 \cdot 2!$					

(continued)

Table III (continued)

863	1 101 011 111 1011222	prime	$2^3 + 7^3 + 8^3$	$432^2 - 431^2$	$1 \cdot 6! + 1 \cdot 5! + 3 \cdot 3! + 2 \cdot 2! + 1!$			
864	1 101 100 000 1012000	$2^5 \cdot 3^3$	$8^2 + 20^2 + 20^2$	$12^2 + 12^2 + 24^2$	$4^2 + 8^2 + 28^2$	$30^2 - 6^2$	$33^2 - 15^2$	
			$35^2 - 19^2$	$42^2 - 30^2$	$58^2 - 50^2$	$75^2 - 69^2$	$110^2 - 106^2$	$217^2 - 215^2$
			$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4!$	$q(38)$				
865	1 101 100 001 1012001	$5 \cdot 173$	$17^2 + 24^2$	$9^2 + 28^2$	$10^2 + 18^2 + 21^2$	$8^2 + 15^2 + 24^2$		
			$6^2 + 10^2 + 27^2$	$89^2 - 84^2$	$433^2 - 432^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 1!$		
866	1 101 100 010 1012002	$2 \cdot 433$	$5^2 + 29^2$	$12^2 + 19^2 + 19^2$	$13^2 + 16^2 + 21^2$	$8^2 + 19^2 + 21^2$		
			$5^2 + 20^2 + 21^2$	$9^2 + 16^2 + 23^2$	$11^2 + 13^2 + 24^2$	$1^2 + 17^2 + 24^2$		
			$4^2 + 15^2 + 25^2$	$4^2 + 11^2 + 27^2$	$1^2 + 9^2 + 28^2$	$3^2 + 4^2 + 29^2$	$13^3 - 11^3$	
			$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 1 \cdot 2!$					
867	1 101 100 011 1012010	$3 \cdot 17^2$	$17^2 + 17^2 + 17^2$	$13^2 + 13^2 + 23^2$	$7^2 + 17^2 + 23^2$	$11^2 + 11^2 + 25^2$		
			$1^2 + 5^2 + 29^2$	$34^2 - 17^2$	$146^2 - 143^2$	$434^2 - 433^2$		
			$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 1 \cdot 2! + 1!$					
868	1 101 100 100 1012011	$2^2 \cdot 7 \cdot 31$	$12^2 + 18^2 + 20^2$	$6^2 + 16^2 + 24^2$	$38^2 - 24^2$	$218^2 - 216^2$		
			$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 2 \cdot 2!$					
869	1 101 100 101 1012012	$11 \cdot 79$	$16^2 + 17^2 + 18^2$	$12^2 + 14^2 + 23^2$	$4^2 + 18^2 + 23^2$	$2^2 + 17^2 + 24^2$		
			$10^2 + 12^2 + 25^2$	$7^2 + 12^2 + 26^2$	$6^2 + 7^2 + 28^2$	$2^2 + 9^2 + 28^2$	$45^2 - 34^2$	
			$435^2 - 434^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 2 \cdot 2! + 1!$				
870	1 101 100 110 1012020	$2 \cdot 3 \cdot 5 \cdot 29$	$5^2 + 19^2 + 22^2$	$7^2 + 14^2 + 25^2$	$5^2 + 13^2 + 26^2$	$2^2 + 5^2 + 29^2$		
			$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3!$	$s_{10}^{(8)}$				
871	1 101 100 111 1012021	$13 \cdot 67$	$40^2 - 27^2$	$436^2 - 435^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1!$			
872	1 101 101 000 1012022	$2^3 \cdot 109$	$14^2 + 26^2$	$8^2 + 18^2 + 22^2$	$10^2 + 14^2 + 24^2$	$111^2 - 107^2$		
			$219^2 - 217^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$				
873	1 101 101 001 1012100	$3^2 \cdot 97$	$12^2 + 27^2$	$15^2 + 18^2 + 18^2$	$16^2 + 16^2 + 19^2$	$10^2 + 17^2 + 22^2$		
			$1^2 + 14^2 + 26^2$	$5^2 + 8^2 + 28^2$	$4^2 + 4^2 + 29^2$	$53^2 - 44^2$	$147^2 - 144^2$	
			$437^2 - 436^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$				
874	1 101 101 010 1012101	$2 \cdot 19 \cdot 23$	$12^2 + 17^2 + 21^2$	$3^2 + 17^2 + 24^2$	$8^2 + 9^2 + 27^2$	$1^2 + 12^2 + 27^2$		
			$3^2 + 9^2 + 28^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$				
875	1 101 101 011 1012102	$5^3 \cdot 7$	$15^2 + 17^2 + 19^2$	$11^2 + 15^2 + 23^2$	$9^2 + 13^2 + 25^2$	$5^2 + 15^2 + 25^2$		
			$5^2 + 11^2 + 27^2$	$3^2 + 5^2 + 29^2$	$30^2 - 5^2$	$66^2 - 59^2$	$90^2 - 85^2$	
			$438^2 - 437^2$	$10^3 - 5^3$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$			

(continued)

Table III (continued)

876	1 101 101 100 1012110	$2^2 \cdot 3 \cdot 73$	$14^2 + 14^2 + 22^2$	$10^2 + 10^2 + 26^2$	$2^2 + 14^2 + 26^2$	$76^2 - 70^2$
		$220^2 - 218^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3!$			
877	1 101 101 101 1012111	prime	$6^2 + 29^2$	$6^2 + 20^2 + 21^2$	$2^2 + 12^2 + 27^2$	$439^2 - 438^2$
			$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1!$	a_7		
878	1 101 101 110 1012112	$2 \cdot 439$	$13^2 + 15^2 + 22^2$	$5^2 + 18^2 + 23^2$	$9^2 + 11^2 + 26^2$	$7^2 + 10^2 + 27^2$
		$1^2 + 6^2 + 29^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$			
879	1 101 101 111 1012120	$3 \cdot 293$	$148^2 - 145^2$	$440^2 - 439^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$	
880	1 101 110 000 1012121	$2^4 \cdot 5 \cdot 11$	$31^2 - 9^2$	$32^2 - 12^2$	$49^2 - 39^2$	$59^2 - 51^2$
		$221^2 - 219^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$			
881	1 101 110 001 1012122	prime	$16^2 + 25^2$	$14^2 + 18^2 + 19^2$	$15^2 + 16^2 + 20^2$	$9^2 + 20^2 + 20^2$
		$6^2 + 19^2 + 22^2$	$7^2 + 16^2 + 24^2$	$4^2 + 17^2 + 24^2$	$6^2 + 13^2 + 26^2$	
		$3^2 + 14^2 + 26^2$	$4^2 + 9^2 + 28^2$	$2^2 + 6^2 + 29^2$	$3^3 + 5^3 + 9^3$	$4^4 + 5^4$
		$441^2 - 440^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$			
882	1 101 110 010 1012200	$2 \cdot 3^2 \cdot 7^2$	$21^2 + 21^2$	$11^2 + 19^2 + 20^2$	$8^2 + 17^2 + 23^2$	$9^2 + 15^2 + 24^2$
		$1^2 + 16^2 + 25^2$	$3^2 + 12^2 + 27^2$	$7^2 + 7^2 + 28^2$	$4^2 + 5^2 + 29^2$	
		$3^3 + 7^3 + 8^3$	$1^4 + 4^4 + 5^4$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3!$		
883	1 101 110 011 1012201	prime	$9^2 + 19^2 + 21^2$	$1^2 + 21^2 + 21^2$	$442^2 - 441^2$	
			$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1!$			
884	1 101 110 100 1012202	$2^2 \cdot 13 \cdot 17$	$20^2 + 22^2$	$10^2 + 28^2$	$12^2 + 16^2 + 22^2$	$8^2 + 12^2 + 26^2$
		$6^2 + 8^2 + 28^2$	$30^2 - 4^2$	$222^2 - 220^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$	
885	1 101 110 101 1012210	$3 \cdot 5 \cdot 59$	$14^2 + 17^2 + 20^2$	$1^2 + 20^2 + 22^2$	$10^2 + 16^2 + 23^2$	$8^2 + 14^2 + 25^2$
		$2^2 + 16^2 + 25^2$	$1^2 + 10^2 + 28^2$	$37^2 - 22^2$	$91^2 - 86^2$	$149^2 - 146^2$
		$443^2 - 442^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$			
886	1 101 110 110 1012211	$2 \cdot 443$	$11^2 + 18^2 + 21^2$	$2^2 + 21^2 + 21^2$	$6^2 + 15^2 + 25^2$	$6^2 + 11^2 + 27^2$
		$3^2 + 6^2 + 29^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$			
887	1 101 110 111 1012212	prime	$444^2 - 443^2$	$1 \cdot 6! + 1 \cdot 5! + 1 \cdot 4! + 3 \cdot 3! + 2 \cdot 2! + 1!$		
888	1 101 111 000 1012220	$2^3 \cdot 3 \cdot 37$	$2^2 + 20^2 + 22^2$	$4^2 + 14^2 + 26^2$	$2^2 + 10^2 + 28^2$	$43^2 - 31^2$
		$77^2 - 71^2$	$113^2 - 109^2$	$223^2 - 221^2$	$1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4!$	
889	1 101 111 001 1012221	$7 \cdot 127$	$9^2 + 18^2 + 22^2$	$6^2 + 18^2 + 23^2$	$12^2 + 13^2 + 24^2$	$4^2 + 12^2 + 27^2$
		$67^2 - 60^2$	$445^2 - 444^2$	$1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 1!$		
890	1 101 111 010 1012222	$2 \cdot 5 \cdot 89$	$19^2 + 23^2$	$7^2 + 29^2$	$7^2 + 20^2 + 21^2$	$5^2 + 17^2 + 24^2$
		$11^2 + 12^2 + 25^2$	$3^2 + 16^2 + 25^2$	$5^2 + 9^2 + 28^2$	$1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 1 \cdot 2!$	

(continued)

Table III (continued)

891	1 101 111 011 1020000	$3^4 \cdot 11$ $13^2 + 19^2 + 19^2$ $15^2 + 15^2 + 21^2$ $3^2 + 21^2 + 21^2$ $1^2 + 19^2 + 23^2$ $9^2 + 9^2 + 27^2$ $5^2 + 5^2 + 29^2$ $1^2 + 7^2 + 29^2$ $30^2 - 3^2$ $46^2 - 35^2$ $54^2 - 45^2$ $150^2 - 147^2$ $446^2 - 445^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 1 \cdot 2! + 1!$
892	1 101 111 100 1020001	$2^2 \cdot 223$ $224^2 - 222^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 2 \cdot 2!$
893	1 101 111 101 1020002	$19 \cdot 47$ $13^2 + 18^2 + 20^2$ $14^2 + 16^2 + 21^2$ $3^2 + 20^2 + 22^2$ $11^2 + 14^2 + 24^2$ $8^2 + 10^2 + 27^2$ $3^2 + 10^2 + 28^2$ $4^2 + 6^2 + 29^2$ $33^2 - 14^2$ $447^2 - 446^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 2 \cdot 2! + 1!$
894	1 101 111 110 1020010	$2 \cdot 3 \cdot 149$ $11^2 + 17^2 + 22^2$ $7^2 + 19^2 + 22^2$ $13^2 + 14^2 + 23^2$ $2^2 + 19^2 + 23^2$ $10^2 + 13^2 + 25^2$ $7^2 + 13^2 + 26^2$ $2^2 + 7^2 + 29^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3!$
895	1 101 111 111 1020011	$5 \cdot 179$ $92^2 - 87^2$ $448^2 - 447^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1!$
896	1 110 000 000 1020012	$2^7 \cdot 7$ $8^2 + 16^2 + 24^2$ $30^2 - 2^2$ $36^2 - 20^2$ $39^2 - 25^2$ $60^2 - 52^2$ $114^2 - 110^2$ $225^2 - 223^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$
897	1 110 000 001 1020020	$3 \cdot 13 \cdot 23$ $4^2 + 16^2 + 25^2$ $10^2 + 11^2 + 26^2$ $5^2 + 14^2 + 26^2$ $7^2 + 8^2 + 28^2$ $2^4 + 4^4 + 5^4$ $31^2 - 8^2$ $41^2 - 28^2$ $151^2 - 148^2$ $449^2 - 448^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$
898	1 110 000 010 1020021	$2 \cdot 449$ $13^2 + 27^2$ $4^2 + 21^2 + 21^2$ $12^2 + 15^2 + 23^2$ $5^2 + 12^2 + 27^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$
899	1 110 000 011 1020022	$29 \cdot 31$ $13^2 + 17^2 + 21^2$ $9^2 + 17^2 + 23^2$ $3^2 + 19^2 + 23^2$ $7^2 + 15^2 + 25^2$ $7^2 + 11^2 + 27^2$ $1^2 + 13^2 + 27^2$ $3^2 + 7^2 + 29^2$ $30^2 - 1^2$ $450^2 - 449^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$
900	1 110 000 100 1020100	$2^2 \cdot 3^2 \cdot 5^2$ 30^2 $18^2 + 24^2$ $10^2 + 20^2 + 20^2$ $4^2 + 20^2 + 22^2$ $4^2 + 10^2 + 28^2$ $34^2 - 16^2$ $50^2 - 40^2$ $78^2 - 72^2$ $226^2 - 224^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3!$
901	1 110 000 101 1020101	$17 \cdot 53$ $15^2 + 26^2$ $1^2 + 30^2$ $10^2 + 15^2 + 24^2$ $6^2 + 17^2 + 24^2$ $1^2 + 18^2 + 24^2$ $9^2 + 12^2 + 26^2$ $6^2 + 9^2 + 28^2$ $35^2 - 18^2$ $451^2 - 450^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1!$
902	1 110 000 110 1020102	$2 \cdot 11 \cdot 41$ $17^2 + 17^2 + 18^2$ $10^2 + 19^2 + 21^2$ $7^2 + 18^2 + 23^2$ $9^2 + 14^2 + 25^2$ $1^2 + 15^2 + 26^2$ $2^2 + 13^2 + 27^2$ $5^2 + 6^2 + 29^2$ $1^2 + 1^2 + 30^2$ $6^3 + 7^3 + 7^3$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$
903	1 110 000 111 1020110	$3 \cdot 7 \cdot 43$ $\sum_{n=1}^4 2^n$ $32^2 - 11^2$ $68^2 - 61^2$ $152^2 - 149^2$ $452^2 - 451^2$ $\binom{43}{2}$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$
904	1 110 001 000 1020111	$2^3 \cdot 113$ $2^2 + 30^2$ $16^2 + 18^2 + 18^2$ $2^2 + 18^2 + 24^2$ $115^2 - 111^2$ $227^2 - 225^2$ $1 \cdot 6! + 1 \cdot 5! + 2 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$

(continued)

Table III (continued)

905	1 110 001 001 1020112	5·181 $14^2 + 15^2 + 22^2$ $1·6! + 1·5! + 2·4! + 2·3! + 2·2! + 1!$	$11^2 + 28^2$ $2^2 + 15^2 + 26^2$	$8^2 + 29^2$	$12^2 + 19^2 + 20^2$ $1^2 + 2^2 + 30^2$	$8^2 + 20^2 + 21^2$ $93^2 - 88^2$	$453^2 - 452^2$
906	1 110 001 010 1020120	2·3·151 $1^2 + 11^2 + 28^2$	$16^2 + 17^2 + 19^2$ $4^2 + 7^2 + 29^2$	$11^2 + 16^2 + 23^2$ $1^2 + 8^2 + 29^2$	$4^2 + 19^2 + 23^2$ $1·6! + 1·5! + 2·4! + 3·3!$	$5^2 + 16^2 + 25^2$	
907	1 110 001 011 1020121	prime $1·6! + 1·5! + 2·4! + 3·3! + 1!$	$5^2 + 21^2 + 21^2$	$3^2 + 13^2 + 27^2$	$454^2 - 453^2$		
908	1 110 001 100 1020122	$2^2·227$ $1·6! + 1·5! + 2·4! + 3·3! + 1·2!$	$10^2 + 18^2 + 22^2$	$6^2 + 14^2 + 26^2$	$2^2 + 2^2 + 30^2$	$228^2 - 226^2$	
909	1 110 001 101 1020200	$3^2·101$ $5^2 + 20^2 + 22^2$ $2^2 + 11^2 + 28^2$ $1·6! + 1·5! + 2·4! + 3·3! + 1·2! + 1!$	$3^2 + 30^2$ $3^2 + 18^2 + 24^2$ $2^2 + 8^2 + 29^2$	$12^2 + 18^2 + 21^2$ $8^2 + 13^2 + 26^2$ $55^2 - 46^2$	$13^2 + 16^2 + 22^2$ $6^2 + 12^2 + 27^2$ $153^2 - 150^2$	$8^2 + 19^2 + 22^2$ $5^2 + 10^2 + 28^2$ $455^2 - 454^2$	
910	1 110 001 110 1020201	$2·5·7·13$ $1·6! + 1·5! + 2·4! + 3·3! + 2·2!$	$15^2 + 18^2 + 19^2$	$3^2 + 15^2 + 26^2$	$9^2 + 10^2 + 27^2$	$1^2 + 3^2 + 30^2$	
911	1 110 001 111 1020202	prime $456^2 - 455^2$ $1·6! + 1·5! + 2·4! + 3·3! + 2·2! + 1!$					
912	1 110 010 000 1020210	$2^4·3·19$ $79^2 - 73^2$	$16^2 + 16^2 + 20^2$ $116^2 - 112^2$	$8^2 + 8^2 + 28^2$ $229^2 - 227^2$	$31^2 - 7^2$ $1·6! + 1·5! + 3·4!$	$44^2 - 32^2$	$61^2 - 53^2$
913	1 110 010 001 1020211	11·83 $47^2 - 36^2$	$9^2 + 16^2 + 24^2$ $457^2 - 456^2$	$12^2 + 12^2 + 25^2$ $1·6! + 1·5! + 3·4! + 1!$	$6^2 + 6^2 + 29^2$	$2^2 + 3^2 + 30^2$	
914	1 110 010 010 1020212	2·457 $8^2 + 15^2 + 25^2$ $3^2 + 8^2 + 29^2$	$17^2 + 25^2$ $8^2 + 11^2 + 27^2$ $1·6! + 1·5! + 3·4! + 1·2!$	$15^2 + 17^2 + 20^2$ $4^2 + 13^2 + 27^2$	$13^2 + 13^2 + 24^2$ $7^2 + 9^2 + 28^2$	$7^2 + 17^2 + 24^2$ $3^2 + 11^2 + 28^2$	
915	1 110 010 011 1020220	3·5·61 $38^2 - 23^2$	$5^2 + 19^2 + 23^2$ $94^2 - 89^2$	$11^2 + 13^2 + 25^2$ $154^2 - 151^2$	$1^2 + 17^2 + 25^2$ $458^2 - 457^2$	$5^2 + 7^2 + 29^2$ $1·6! + 1·5! + 3·4! + 1·2! + 1!$	
916	1 110 010 100 1020221	$2^2·229$ $1·6! + 1·5! + 3·4! + 2·2!$	$4^2 + 30^2$	$12^2 + 14^2 + 24^2$	$4^2 + 18^2 + 24^2$	$230^2 - 228^2$	
917	1 110 010 101 1020222	7·131 $1^2 + 4^2 + 30^2$	$12^2 + 17^2 + 22^2$ $69^2 - 62^2$	$8^2 + 18^2 + 23^2$ $459^2 - 458^2$	$6^2 + 16^2 + 25^2$ $1·6! + 1·5! + 3·4! + 2·2! + 1!$	$4^2 + 15^2 + 26^2$	
918	1 110 010 110 1021000	$2·3^3·17$ $11^2 + 11^2 + 26^2$	$14^2 + 19^2 + 19^2$ $3^2 + 3^2 + 30^2$	$6^2 + 21^2 + 21^2$ $4^3 + 5^3 + 9^3$	$10^2 + 17^2 + 23^2$ $1·6! + 1·5! + 3·4! + 1·3!$	$2^2 + 17^2 + 25^2$	
919	1 110 010 111 1021001	prime $4^3 + 7^3 + 8^3$	$460^2 - 459^2$	$18^3 - 17^3$	$1·6! + 1·5! + 3·4! + 1·3! + 1!$		

(continued)

Table III (continued)

920	1 110 011 000 1021002	$2^3 \cdot 5 \cdot 23$ $2^2 + 4^2 + 30^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$14^2 + 18^2 + 20^2$ $33^2 - 13^2$	$6^2 + 20^2 + 22^2$ $51^2 - 41^2$	$10^2 + 12^2 + 26^2$ $117^2 - 113^2$	$6^2 + 10^2 + 28^2$ $231^2 - 229^2$
921	1 110 011 001 1021010	$3 \cdot 307$ $4^2 + 11^2 + 28^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$	$11^2 + 20^2 + 20^2$ $4^2 + 8^2 + 29^2$	$14^2 + 14^2 + 23^2$ $155^2 - 152^2$	$10^2 + 14^2 + 25^2$ $461^2 - 460^2$	$7^2 + 14^2 + 26^2$
922	1 110 011 010 1021011	$2 \cdot 461$ $7^2 + 12^2 + 27^2$	$9^2 + 29^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$	$15^2 + 16^2 + 21^2$	$9^2 + 20^2 + 21^2$	$11^2 + 15^2 + 24^2$
923	1 110 011 011 1021012	$13 \cdot 71$ $1^2 + 9^2 + 29^2$	$11^2 + 19^2 + 21^2$ $42^2 - 29^2$	$13^2 + 15^2 + 23^2$ $462^2 - 461^2$	$3^2 + 17^2 + 25^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 1 \cdot 3! + 2 \cdot 2! + 1!$	$5^2 + 13^2 + 27^2$
924	1 110 011 100 1021020	$2^2 \cdot 3 \cdot 7 \cdot 11$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3!$	$32^2 - 10^2$	$40^2 - 26^2$	$80^2 - 74^2$	$232^2 - 230^2$ ($\frac{12}{6}$)
925	1 110 011 101 1021021	$5^2 \cdot 37$ $31^2 - 6^2$	$21^2 + 22^2$ $95^2 - 90^2$	$14^2 + 27^2$ $463^2 - 462^2$	$5^2 + 30^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1!$	$5^2 + 18^2 + 24^2$ $3^2 + 4^2 + 30^2$
926	1 110 011 110 1021022	$2 \cdot 463$ $1^2 + 5^2 + 30^2$	$14^2 + 17^2 + 21^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2!$	$9^2 + 19^2 + 22^2$	$1^2 + 21^2 + 22^2$	$6^2 + 19^2 + 23^2$ $2^2 + 9^2 + 29^2$
927	1 110 011 111 1021100	$3^2 \cdot 103$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 1 \cdot 2! + 1!$	$56^2 - 47^2$	$156^2 - 153^2$	$464^2 - 463^2$	
928	1 110 100 000 1021101	$2^5 \cdot 29$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2!$	$12^2 + 28^2$	$37^2 - 21^2$	$62^2 - 54^2$	$118^2 - 114^2$ $233^2 - 231^2$
929	1 110 100 001 1021102	prime $2^2 + 5^2 + 30^2$	$20^2 + 23^2$ $465^2 - 464^2$	$11^2 + 18^2 + 22^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 2 \cdot 3! + 2 \cdot 2! + 1!$	$2^2 + 21^2 + 22^2$	$12^2 + 16^2 + 23^2$ $1^2 + 12^2 + 28^2$
930	1 110 100 010 1021110	$2 \cdot 3 \cdot 5 \cdot 31$ $5^2 + 11^2 + 28^2$	$13^2 + 19^2 + 20^2$ $5^2 + 8^2 + 29^2$	$1^2 + 20^2 + 23^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 3 \cdot 3!$	$7^2 + 16^2 + 25^2$	$4^2 + 17^2 + 25^2$
931	1 110 100 011 1021111	$7^2 \cdot 19$ $34^2 - 15^2$	$7^2 + 21^2 + 21^2$ $70^2 - 63^2$	$9^2 + 15^2 + 25^2$ $466^2 - 465^2$	$9^2 + 11^2 + 27^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1!$	$3^2 + 9^2 + 29^2$
932	1 110 100 100 1021112	$2^2 \cdot 233$ $234^2 - 232^2$	$16^2 + 26^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2!$	$10^2 + 16^2 + 24^2$	$2^2 + 12^2 + 28^2$	$4^2 + 4^2 + 30^2$
933	1 110 100 101 1021120	$3 \cdot 311$ $157^2 - 154^2$	$7^2 + 20^2 + 22^2$ $467^2 - 466^2$	$2^2 + 20^2 + 23^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 1 \cdot 2! + 1!$	$1^2 + 16^2 + 26^2$	$7^2 + 10^2 + 28^2$
934	1 110 100 110 1021121	$2 \cdot 467$ $6^2 + 13^2 + 27^2$	$13^2 + 18^2 + 21^2$ $3^2 + 14^2 + 27^2$	$15^2 + 15^2 + 22^2$ $3^2 + 5^2 + 30^2$	$3^2 + 21^2 + 22^2$ $1 \cdot 6! + 1 \cdot 5! + 3 \cdot 4! + 3 \cdot 3! + 2 \cdot 2!$	$9^2 + 18^2 + 23^2$

(continued)

Table III (continued)

935	1 110 100 111 1021122	5·11·17 1·6! + 1·5! + 3·4! + 3·3! + 2·2! + 1!	$36^2 - 19^2$	$48^2 - 37^2$	$96^2 - 91^2$	$468^2 - 467^2$
936	1 110 101 000 1021200	$2^3 \cdot 3^2 \cdot 13$ $2^2 + 16^2 + 26^2$ $235^2 - 233^2$	$6^2 + 30^2$ $31^2 - 5^2$ $10^3 - 4^3$	$14^2 + 16^2 + 22^2$ $35^2 - 17^2$ $1 \cdot 6! + 1 \cdot 5! + 4 \cdot 4!$	$6^2 + 18^2 + 24^2$ $45^2 - 33^2$	$8^2 + 14^2 + 26^2$ $81^2 - 75^2$ $119^2 - 115^2$
937	1 110 101 001 1021201	prime $3^2 + 12^2 + 28^2$	$19^2 + 24^2$ $1^2 + 6^2 + 30^2$	$17^2 + 18^2 + 18^2$ $469^2 - 468^2$	$6^2 + 15^2 + 26^2$ $1 \cdot 6! + 1 \cdot 5! + 4 \cdot 4! + 1!$	$8^2 + 12^2 + 27^2$
938	1 110 101 010 1021202	2·7·67 1·6! + 1·5! + 4·4! + 1·2!	$3^2 + 20^2 + 23^2$	$1^2 + 19^2 + 24^2$	$12^2 + 13^2 + 25^2$	$4^2 + 9^2 + 29^2$
939	1 110 101 011 1021210	3·313 $7^2 + 7^2 + 29^2$	$17^2 + 17^2 + 19^2$ $158^2 - 155^2$	$11^2 + 17^2 + 23^2$ $470^2 - 469^2$	$7^2 + 19^2 + 23^2$ $1 \cdot 6! + 1 \cdot 5! + 4 \cdot 4! + 1 \cdot 2! + 1!$	$5^2 + 17^2 + 25^2$
940	1 110 101 100 1021211	$2^2 \cdot 5 \cdot 47$	$2^2 + 6^2 + 30^2$	$52^2 - 42^2$	$236^2 - 234^2$	$1 \cdot 6! + 1 \cdot 5! + 4 \cdot 4! + 2 \cdot 2!$
941	1 110 101 101 1021212	prime $6^2 + 11^2 + 28^2$ $1 \cdot 6! + 1 \cdot 5! + 4 \cdot 4! + 2 \cdot 2! + 1!$	$10^2 + 29^2$ $2^2 + 19^2 + 24^2$ $6^2 + 8^2 + 29^2$	$16^2 + 18^2 + 19^2$ $11^2 + 12^2 + 26^2$ $4^2 + 5^2 + 30^2$	$10^2 + 20^2 + 21^2$ $3^2 + 16^2 + 26^2$ $471^2 - 470^2$	$4^2 + 21^2 + 22^2$ $4^2 + 14^2 + 27^2$
942	1 110 101 110 1021220	2·3·157 1·6! + 1·5! + 4·4! + 1·3!	$13^2 + 17^2 + 22^2$	$11^2 + 14^2 + 25^2$	$1^2 + 10^2 + 29^2$	
943	1 110 101 111 1021221	23·41 1021221	$32^2 - 9^2$	$472^2 - 471^2$	$1 \cdot 6! + 1 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1!$	
944	1 110 110 000 1021222	$2^4 \cdot 59$ $120^2 - 116^2$	$12^2 + 20^2 + 20^2$ $237^2 - 235^2$	$4^2 + 12^2 + 28^2$ $1 \cdot 6! + 1 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2!$	$6^3 + 6^3 + 8^3$	$63^2 - 55^2$
945	1 110 110 001 1022000	$3^3 \cdot 5 \cdot 7$ $12^2 + 15^2 + 24^2$ $6^3 + 9^3$ $159^2 - 156^2$	$1 \cdot 3 \cdot 5 \cdot 7 \cdot 9$ $31^2 - 4^2$ $31^2 - 4^2$ $473^2 - 472^2$	$16^2 + 17^2 + 20^2$ $8^2 + 16^2 + 25^2$ $33^2 - 12^2$ $1 \cdot 6! + 1 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 1 \cdot 2! + 1!$	$10^2 + 19^2 + 22^2$ $10^2 + 13^2 + 26^2$ $39^2 - 24^2$ $57^2 - 48^2$	$4^2 + 20^2 + 23^2$ $2^2 + 10^2 + 29^2$ $71^2 - 64^2$ $97^2 - 92^2$
946	1 110 110 010 1022001	2·11·43 $3^2 + 19^2 + 24^2$ $1 \cdot 6! + 1 \cdot 5! + 4 \cdot 4! + 1 \cdot 3! + 2 \cdot 2!$	$\sum_{n=1}^4 3^n$ $9^2 + 9^2 + 28^2$	$12^2 + 19^2 + 21^2$ $1^3 + 6^3 + 9^3$	$8^2 + 21^2 + 21^2$ $(\binom{44}{2})$	$9^2 + 17^2 + 24^2$
947	1 110 110 011 1022002	prime 1·6! + 1·5! + 4·4! + 1·3! + 2·2! + 1!	$15^2 + 19^2 + 19^2$	$7^2 + 13^2 + 27^2$	$5^2 + 9^2 + 29^2$	$474^2 - 473^2$
948	1 110 110 100 1022010	$2^2 \cdot 3 \cdot 79$ $238^2 - 236^2$	$8^2 + 20^2 + 22^2$ $1 \cdot 6! + 1 \cdot 5! + 4 \cdot 4! + 2 \cdot 3!$	$4^2 + 16^2 + 26^2$	$8^2 + 10^2 + 28^2$	$82^2 - 76^2$

(continued)

Table III (continued)

949	1 110 110 101 1022011	13·73 $475^2 - 474^2$	$18^2 + 25^2$ $1·6! + 1·5! + 4·4! + 2·3! + 1!$	$7^2 + 30^2$	$15^2 + 18^2 + 20^2$	$7^2 + 18^2 + 24^2$	$43^2 - 30^2$
950	1 110 110 110 1022012	$2·5^2·19$ $1^2 + 18^2 + 25^2$ $3^2 + 10^2 + 29^2$	$5^2 + 21^2 + 22^2$ $7^2 + 15^2 + 26^2$ $5^2 + 5^2 + 30^2$	$14^2 + 15^2 + 23^2$ $10^2 + 11^2 + 27^2$ $1^2 + 7^2 + 30^2$	$10^2 + 15^2 + 25^2$ $5^2 + 14^2 + 27^2$	$6^2 + 17^2 + 25^2$ $1·6! + 1·5! + 4·4! + 2·3! + 1·2!$	
951	1 110 110 111 1022020	3·317 $160^2 - 157^2$	$476^2 - 475^2$	$1·6! + 1·5! + 4·4! + 2·3! + 1·2! + 1!$			
952	1 110 111 000 1022021	$2^3·7·17$ $239^2 - 237^2$	$12^2 + 18^2 + 22^2$ $1·6! + 1·5! + 4·4! + 2·3! + 2·2!$	$4^2 + 6^2 + 30^2$	$31^2 - 3^2$	$41^2 - 27^2$	$121^2 - 117^2$
953	1 110 111 001 1022022	prime $4^2 + 19^2 + 24^2$ $2^3 + 6^3 + 9^3$	$13^2 + 28^2$ $2^2 + 18^2 + 25^2$ $477^2 - 476^2$	$16^2 + 16^2 + 21^2$ $9^2 + 14^2 + 26^2$ $1·6! + 1·5! + 4·4! + 2·3! + 2·2! + 1!$	$10^2 + 18^2 + 23^2$ $5^2 + 12^2 + 28^2$	$11^2 + 16^2 + 24^2$ $2^2 + 7^2 + 30^2$	
954	1 110 111 010 1022100	$2·3^2·53$ $9^2 + 12^2 + 27^2$ $1·6! + 1·5! + 4·4! + 3·3!$	$15^2 + 27^2$ $7^2 + 11^2 + 28^2$	$13^2 + 16^2 + 23^2$ $1^2 + 13^2 + 28^2$	$8^2 + 19^2 + 23^2$ $7^2 + 8^2 + 29^2$	$5^2 + 20^2 + 23^2$	
955	1 110 111 011 1022101	5·191 $1·6! + 1·5! + 4·4! + 3·3! + 1!$	$15^2 + 17^2 + 21^2$	$1^2 + 15^2 + 27^2$	$98^2 - 93^2$	$478^2 - 477^2$	
956	1 110 111 100 1022102	$2^2·239$ $240^2 - 238^2$	$1·6! + 1·5! + 4·4! + 3·3! + 1·2!$				
957	1 110 111 101 1022110	3·11·29 $31^2 - 2^2$ $1·6! + 1·5! + 4·4! + 3·3! + 1·2! + 1!$	$14^2 + 19^2 + 20^2$ $49^2 - 38^2$	$5^2 + 16^2 + 26^2$ $161^2 - 158^2$	$2^2 + 13^2 + 28^2$ $479^2 - 478^2$	$4^2 + 10^2 + 29^2$	
958	1 110 111 110 1022111	2·479 $1·6! + 1·5! + 4·4! + 3·3! + 2·2!$	$3^2 + 18^2 + 25^2$	$2^2 + 15^2 + 27^2$	$6^2 + 9^2 + 29^2$	$3^2 + 7^2 + 30^2$	
959	1 110 111 111 1022112	7·137 $72^2 - 65^2$	$480^2 - 479^2$	$1·6! + 1·5! + 4·4! + 3·3! + 2·2! + 1!$			
960	1 111 000 000 1022120	$2^6·3·5$ $64^2 - 56^2$	$31^2 - 1^2$ $83^2 - 77^2$	$32^2 - 8^2$ $122^2 - 118^2$	$34^2 - 14^2$ $241^2 - 239^2$	$38^2 - 22^2$ $1·6! + 2·5!$	$46^2 - 34^2$ $53^2 - 43^2$
961	1 111 000 001 1022121	31^2 $481^2 - 480^2$	$14^2 + 18^2 + 21^2$ $1·6! + 2·5! + 1!$	$6^2 + 21^2 + 22^2$	$6^2 + 14^2 + 27^2$	$5^2 + 6^2 + 30^2$	
962	1 111 000 010 1022122	$2·13·37$ $5^2 + 19^2 + 24^2$ $1·6! + 2·5! + 1·2!$	$11^2 + 29^2$ $9^2 + 16^2 + 25^2$	$1^2 + 31^2$ $8^2 + 13^2 + 27^2$	$11^2 + 20^2 + 21^2$ $3^2 + 13^2 + 28^2$	$12^2 + 17^2 + 23^2$ $3^4 + 4^4 + 5^4$	
963	1 111 000 011 1022200	$3^2·107$ $1^2 + 11^2 + 29^2$ $1·6! + 2·5! + 1·2! + 1!$	$9^2 + 21^2 + 21^2$ $1^2 + 1^2 + 31^2$	$13^2 + 13^2 + 25^2$ $58^2 - 49^2$	$7^2 + 17^2 + 25^2$ $162^2 - 159^2$	$3^2 + 15^2 + 27^2$ $482^2 - 481^2$	

(continued)

Table III (continued)

964	1 111 000 100 1022201	$2^2 \cdot 241$ $242^2 - 240^2$	$8^2 + 30^2$ $1 \cdot 6! + 2 \cdot 5! + 2 \cdot 2!$	$8^2 + 18^2 + 24^2$	$12^2 + 12^2 + 26^2$	$6^2 + 12^2 + 28^2$
965	1 111 000 101 1022202	5·193 $10^2 + 17^2 + 24^2$ $9^2 + 10^2 + 28^2$	$17^2 + 26^2$ $12^2 + 14^2 + 25^2$ $4^2 + 7^2 + 30^2$	$2^2 + 31^2$ $12^2 + 14^2 + 25^2$ $1^2 + 8^2 + 30^2$	$15^2 + 16^2 + 22^2$ $4^2 + 18^2 + 25^2$ $99^2 - 94^2$	$9^2 + 20^2 + 22^2$ $8^2 + 15^2 + 26^2$ $483^2 - 482^2$ $6^2 + 20^2 + 23^2$
966	1 111 000 110 1022210	2·3·7·23 $2^2 + 11^2 + 29^2$	$11^2 + 19^2 + 22^2$ $1^2 + 2^2 + 31^2$	$11^2 + 13^2 + 26^2$ $1 \cdot 6! + 2 \cdot 5! + 1 \cdot 3!$	$1^2 + 17^2 + 26^2$	$5^2 + 10^2 + 29^2$
967	1 111 000 111 1022211	prime $484^2 - 483^2$	$1 \cdot 6! + 2 \cdot 5! + 1 \cdot 3! + 1!$			
968	1 111 001 000 1022212	$2^3 \cdot 11^2$ $33^2 - 11^2$	$22^2 + 22^2$ $123^2 - 119^2$	$14^2 + 14^2 + 24^2$ $243^2 - 241^2$	$6^2 + 16^2 + 26^2$ $1 \cdot 6! + 2 \cdot 5! + 1 \cdot 3! + 1 \cdot 2!$	$2^2 + 8^2 + 30^2$
969	1 111 001 001 1022220	3·17·19 $8^2 + 11^2 + 28^2$ $37^2 - 20^2$	$13^2 + 20^2 + 20^2$ $4^2 + 13^2 + 28^2$ $163^2 - 160^2$	$14^2 + 17^2 + 22^2$ $8^2 + 8^2 + 29^2$ $485^2 - 484^2$	$1^2 + 22^2 + 22^2$ $2^2 + 2^2 + 31^2$ $\binom{19}{3}$	$2^2 + 17^2 + 26^2$ $35^2 - 16^2$ $1 \cdot 6! + 2 \cdot 5! + 1 \cdot 3! + 1 \cdot 2! + 1!$
970	1 111 001 010 1022221	2·5·97 $1 \cdot 6! + 2 \cdot 5! + 1 \cdot 3! + 2 \cdot 2!$	$21^2 + 23^2$ $3^2 + 31^2$	$13^2 + 15^2 + 24^2$	$4^2 + 15^2 + 27^2$	
971	1 111 001 011 1022222	prime $11^2 + 11^2 + 27^2$	$13^2 + 19^2 + 21^2$ $7^2 + 9^2 + 29^2$	$9^2 + 19^2 + 23^2$ $3^2 + 11^2 + 29^2$	$1^2 + 21^2 + 23^2$ $1^2 + 3^2 + 31^2$	$11^2 + 15^2 + 25^2$ $486^2 - 485^2$ $1 \cdot 6! + 2 \cdot 5! + 1 \cdot 3! + 2 \cdot 2! + 1!$
972	1 111 001 100 1100000	$2^2 \cdot 3^5$ $3^3 + 6^3 + 9^3$	$18^2 + 18^2 + 18^2$ $36^2 - 18^2$	$2^2 + 22^2 + 22^2$ $84^2 - 78^2$	$10^2 + 14^2 + 26^2$ $244^2 - 242^2$	$6^2 + 6^2 + 30^2$ $1 \cdot 6! + 2 \cdot 5! + 2 \cdot 3!$
973	1 111 001 101 1100001	7·139 $487^2 - 486^2$	$6^2 + 19^2 + 24^2$ $10^3 - 3^3$	$10^2 + 12^2 + 27^2$ $1 \cdot 6! + 2 \cdot 5! + 2 \cdot 3! + 1!$	$3^2 + 8^2 + 30^2$	$73^2 - 66^2$
974	1 111 001 110 1100002	2·487 $5^2 + 18^2 + 25^2$	$17^2 + 18^2 + 19^2$ $3^2 + 17^2 + 26^2$	$7^2 + 21^2 + 22^2$ $7^2 + 14^2 + 27^2$	$11^2 + 18^2 + 23^2$ $5^2 + 7^2 + 30^2$	$2^2 + 21^2 + 23^2$ $2^2 + 3^2 + 31^2$ $1 \cdot 6! + 2 \cdot 5! + 2 \cdot 3! + 1 \cdot 2!$
975	1 111 001 111 1100010	$3 \cdot 5^2 \cdot 13$ $488^2 - 487^2$	$32^2 - 7^2$ $1 \cdot 6! + 2 \cdot 5! + 2 \cdot 3! + 1 \cdot 2! + 1!$	$40^2 - 25^2$ $44^2 - 31^2$	$100^2 - 95^2$	$164^2 - 161^2$
976	1 111 010 000 1100011	$2^4 \cdot 61$ $1 \cdot 6! + 2 \cdot 5! + 2 \cdot 3! + 2 \cdot 2!$	$20^2 + 24^2$ $12^2 + 16^2 + 24^2$	$12^2 + 16^2 + 24^2$ $65^2 - 57^2$	$124^2 - 120^2$	$245^2 - 243^2$
977	1 111 010 001 1100012	prime $7^2 + 12^2 + 28^2$	$4^2 + 31^2$ $6^2 + 10^2 + 29^2$	$13^2 + 18^2 + 22^2$ $489^2 - 488^2$	$3^2 + 22^2 + 22^2$ $1 \cdot 6! + 2 \cdot 5! + 2 \cdot 3! + 2 \cdot 2! + 1!$	$1^2 + 20^2 + 24^2$
978	1 111 010 010 1100020	2·3·163 $5^2 + 13^2 + 28^2$	$16^2 + 19^2 + 19^2$ $4^2 + 11^2 + 29^2$	$17^2 + 17^2 + 20^2$ $1^2 + 4^2 + 31^2$	$7^2 + 20^2 + 23^2$ $1 \cdot 6! + 2 \cdot 5! + 3 \cdot 3!$	$8^2 + 17^2 + 25^2$

(continued)

Table III (continued)

979	1 111 010 011 1100021	11·89 $3^2 + 3^2 + 31^2$ 1·61 + 2·51 + 3·31 + 11	$15^2 + 15^2 + 23^2$ $5^3 + 5^3 + 9^3$	$3^2 + 21^2 + 23^2$ $\sum_1^5 n^4$	$9^2 + 13^2 + 27^2$ $50^2 - 39^2$ $490^2 - 489^2$	$5^2 + 15^2 + 27^2$
980	1 111 010 100 1100022	$2^2 \cdot 5 \cdot 7^2$ $5^3 + 7^3 + 8^3$	$14^2 + 28^2$ $42^2 - 28^2$	$16^2 + 18^2 + 20^2$ $54^2 - 44^2$	$2^2 + 20^2 + 24^2$ $246^2 - 244^2$	$4^2 + 8^2 + 30^2$ $1 \cdot 61 + 2 \cdot 51 + 3 \cdot 31 + 1 \cdot 21$
981	1 111 010 101 1100100	$3^2 \cdot 109$ $7^2 + 16^2 + 26^2$ $165^2 - 162^2$	$9^2 + 30^2$ $4^2 + 17^2 + 26^2$ $491^2 - 490^2$	$14^2 + 16^2 + 23^2$ $1^2 + 14^2 + 28^2$ $1 \cdot 61 + 2 \cdot 51 + 3 \cdot 31 + 1 \cdot 21 + 11$	$9^2 + 18^2 + 24^2$ $2^2 + 4^2 + 31^2$	$10^2 + 16^2 + 25^2$ $59^2 - 50^2$
982	1 111 010 110 1100101	2·491 1·61 + 2·51 + 3·31 + 2·21	$10^2 + 21^2 + 21^2$ q(39)	$9^2 + 15^2 + 26^2$	$1^2 + 9^2 + 30^2$	
983	1 111 010 111 1100102	prime 1100102	$492^2 - 491^2$ 1·61 + 2·51 + 3·31 + 2·21 + 11			
984	1 111 011 000 1100110	$2^3 \cdot 3 \cdot 41$ $47^2 - 35^2$	$10^2 + 20^2 + 22^2$ $85^2 - 79^2$	$4^2 + 22^2 + 22^2$ $125^2 - 121^2$	$10^2 + 10^2 + 28^2$ $247^2 - 245^2$	$2^2 + 14^2 + 28^2$ $1 \cdot 61 + 2 \cdot 51 + 1 \cdot 41$
985	1 111 011 001 1100111	5·197 $6^2 + 7^2 + 30^2$	$16^2 + 27^2$ $2^2 + 9^2 + 30^2$	$12^2 + 29^2$ $101^2 - 96^2$	$12^2 + 20^2 + 21^2$ $493^2 - 492^2$	$3^2 + 20^2 + 24^2$ $1 \cdot 61 + 2 \cdot 51 + 1 \cdot 41 + 11$
986	1 111 011 010 1100112	2·17·29 $4^2 + 21^2 + 23^2$ $8^2 + 9^2 + 29^2$	$19^2 + 25^2$ $11^2 + 17^2 + 24^2$ $1^2 + 12^2 + 29^2$	$5^2 + 31^2$ $7^2 + 19^2 + 24^2$ $3^2 + 4^2 + 31^2$	$15^2 + 19^2 + 20^2$ $1^2 + 16^2 + 27^2$ $1 \cdot 61 + 2 \cdot 51 + 1 \cdot 41 + 1 \cdot 21$	$16^2 + 17^2 + 21^2$ $9^2 + 11^2 + 28^2$
987	1 111 011 011 1100120	3·7·47 $34^2 - 13^2$ Fibonacci (31)	$13^2 + 17^2 + 23^2$ $74^2 - 67^2$	$1^2 + 19^2 + 25^2$ $166^2 - 163^2$	$5^2 + 11^2 + 29^2$ $494^2 - 493^2$	$1^2 + 5^2 + 31^2$ $1 \cdot 61 + 2 \cdot 51 + 1 \cdot 41 + 1 \cdot 21 + 11$
988	1 111 011 100 1100121	$2^2 \cdot 13 \cdot 19$ 1100121	$32^2 - 6^2$ $248^2 - 246^2$	$11^3 - 7^3$	$1 \cdot 61 + 2 \cdot 51 + 1 \cdot 41 + 2 \cdot 21$	
989	1 111 011 101 1100122	23·43 $2^2 + 16^2 + 27^2$ $33^2 - 10^2$	$12^2 + 19^2 + 22^2$ $6^2 + 13^2 + 28^2$ $495^2 - 494^2$	$8^2 + 21^2 + 22^2$ $3^2 + 14^2 + 28^2$ $1 \cdot 61 + 2 \cdot 51 + 1 \cdot 41 + 2 \cdot 21 + 11$	$12^2 + 13^2 + 26^2$ $2^2 + 12^2 + 29^2$	$8^2 + 14^2 + 27^2$ $5^2 + 8^2 + 30^2$
990	1 111 011 110 1100200	$2 \cdot 3^2 \cdot 5 \cdot 11$ $2^2 + 19^2 + 25^2$ $2^2 + 5^2 + 31^2$	$\sum_1^{44} n$ $5^2 + 17^2 + 26^2$ $(\binom{45}{2})$	$15^2 + 18^2 + 21^2$ $6^2 + 15^2 + 27^2$ $1 \cdot 61 + 2 \cdot 51 + 1 \cdot 41 + 1 \cdot 31$	$10^2 + 19^2 + 23^2$ $7^2 + 10^2 + 29^2$	$13^2 + 14^2 + 25^2$ $3^2 + 9^2 + 30^2$
991	1 111 011 111 1100201	prime 1100201	$496^2 - 495^2$ 1·61 + 2·51 + 1·41 + 1·31 + 11			
992	1 111 100 000 1100202	$2^5 \cdot 31$ $249^2 - 247^2$	$4^2 + 20^2 + 24^2$ $10^3 - 2^3$	$8^2 + 12^2 + 28^2$ $4^5 - 2^5$	$39^2 - 23^2$ $1 \cdot 61 + 2 \cdot 51 + 1 \cdot 41 + 1 \cdot 31 + 1 \cdot 21$	$66^2 - 58^2$ $126^2 - 122^2$

(continued)

Table III (continued)

993	1 111 100 001 1100210	3·331	$5^2 + 22^2 + 22^2$	$8^2 + 20^2 + 23^2$	$11^2 + 14^2 + 26^2$	$4^2 + 4^2 + 31^2$
		$167^2 - 164^2$	$497^2 - 496^2$	$1·6! + 2·5! + 1·4! + 1·3! + 1·2! + 1!$		
994	1 111 100 010 1100211	2·7·71	$12^2 + 15^2 + 25^2$	$11^2 + 12^2 + 27^2$	$3^2 + 16^2 + 27^2$	$3^2 + 12^2 + 29^2$
		$1·6! + 2·5! + 1·4! + 1·3! + 2·2!$				
995	1 111 100 011 1100212	5·199	$5^2 + 21^2 + 23^2$	$9^2 + 17^2 + 25^2$	$3^2 + 19^2 + 25^2$	$3^2 + 5^2 + 31^2$
		$102^2 - 97^2$	$498^2 - 497^2$	$1·6! + 2·5! + 1·4! + 1·3! + 2·2! + 1!$		
996	1 111 100 100 1100220	$2^2·3·83$	$14^2 + 20^2 + 20^2$	$16^2 + 16^2 + 22^2$	$8^2 + 16^2 + 26^2$	$4^2 + 14^2 + 28^2$
		$86^2 - 80^2$	$250^2 - 248^2$	$1·6! + 2·5! + 1·4! + 2·3!$		
997	1 111 100 101 1100221	prime	$6^2 + 31^2$	$12^2 + 18^2 + 23^2$	$14^2 + 15^2 + 24^2$	$4^2 + 9^2 + 30^2$
		$499^2 - 498^2$	$1·6! + 2·5! + 1·4! + 2·3! + 1!$			
998	1 111 100 110 1100222	2·499	$14^2 + 19^2 + 21^2$	$15^2 + 17^2 + 22^2$	$7^2 + 18^2 + 25^2$	$10^2 + 13^2 + 27^2$
		$6^2 + 11^2 + 29^2$	$7^2 + 7^2 + 30^2$	$1^2 + 6^2 + 31^2$	$1·6! + 2·5! + 1·4! + 2·3! + 1·2!$	
999	1 111 100 111 1101000	$3^3·37$	$32^2 - 5^2$	$60^2 - 51^2$	$168^2 - 165^2$	$500^2 - 499^2$
		$10^3 - 1^3$				
		$12^3 - 9^3$				
		$1·6! + 2·5! + 1·4! + 2·3! + 1·2! + 1!$				
1000	1 111 101 000 1101001	$2^3·5^3$	10^3	$18^2 + 26^2$	$10^2 + 30^2$	$10^2 + 18^2 + 24^2$
		$35^2 - 15^2$	$55^2 - 45^2$	$127^2 - 123^2$	$6^2 + 8^2 + 30^2$	
		$251^2 - 249^2$				
		$1·6! + 2·5! + 1·4! + 2·3! + 2·2!$				

Table IV

$-\frac{6}{x^2} \ln \frac{\sin x}{x}$ <table border="1"> <tr><td>1</td><td>1.0</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/30</td><td>.03333 33333</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>2/945</td><td>.00211 64021</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/6300</td><td>.00015 87302</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>2/155925</td><td>.00001 28267</td></tr> <tr><td>0</td><td>.0</td></tr> </table>	1	1.0	0	.0	1/30	.03333 33333	0	.0	2/945	.00211 64021	0	.0	1/6300	.00015 87302	0	.0	2/155925	.00001 28267	0	.0	$\frac{1}{x} \int_0^x \frac{t dt}{\sin t}$ <table border="1"> <tr><td>1</td><td>1.0</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/18</td><td>.05555 55556</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>7/1800</td><td>.00388 88889</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>31/105840</td><td>.00029 28949</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>127/5443200</td><td>.00002 33319</td></tr> <tr><td>0</td><td>.0</td></tr> </table>	1	1.0	0	.0	1/18	.05555 55556	0	.0	7/1800	.00388 88889	0	.0	31/105840	.00029 28949	0	.0	127/5443200	.00002 33319	0	.0
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$\frac{1}{x} Shi(x)$ <p style="text-align: right;">Ref. 9</p> <table border="1"> <tr><td>1</td><td>1.0</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/18</td><td>.05555 55556</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/600</td><td>.00166 66667</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/35280</td><td>.00002 83447</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/3265920</td><td>.00000 03062</td></tr> <tr><td>0</td><td>.0</td></tr> </table>	1	1.0	0	.0	1/18	.05555 55556	0	.0	1/600	.00166 66667	0	.0	1/35280	.00002 83447	0	.0	1/3265920	.00000 03062	0	.0	$\frac{1}{x} \int_0^x \frac{\operatorname{arcsinh} t}{t} dt$ <table border="1"> <tr><td>1</td><td>1.0</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>-1/18</td><td>-.05555 55556</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>3/200</td><td>.01500 00000</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>-5/784</td><td>-.00637 75510</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>35/10368</td><td>.00337 57716</td></tr> <tr><td>0</td><td>.0</td></tr> </table>	1	1.0	0	.0	-1/18	-.05555 55556	0	.0	3/200	.01500 00000	0	.0	-5/784	-.00637 75510	0	.0	35/10368	.00337 57716	0	.0
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Table IV (continued)

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$I_0(x)$ <table border="0"> <tr><td>1</td><td>1.0</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/4</td><td>.25000 00000</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/64</td><td>.01562 50000</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/2304</td><td>.00043 40278</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/147456</td><td>.00000 67817</td></tr> <tr><td>0</td><td>.0</td></tr> </table>	1	1.0	0	.0	1/4	.25000 00000	0	.0	1/64	.01562 50000	0	.0	1/2304	.00043 40278	0	.0	1/147456	.00000 67817	0	.0	Bessel function	$\frac{2}{\pi} \int_0^{\pi/2} \frac{d\theta}{\sqrt{1-x^2 \sin^2 \theta}}$ <table border="0"> <tr><td>1</td><td>1.0</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1/4</td><td>.25000 00000</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>9/64</td><td>.14062 50000</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>25/256</td><td>.09765 62500</td></tr> <tr><td>0</td><td>.0</td></tr> <tr><td>1225/16384</td><td>.07476 80664</td></tr> <tr><td>0</td><td>.0</td></tr> </table>	1	1.0	0	.0	1/4	.25000 00000	0	.0	9/64	.14062 50000	0	.0	25/256	.09765 62500	0	.0	1225/16384	.07476 80664	0	.0
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Table IV (continued)

$\frac{1}{x} J_1(2x)$ Bessel function 1 1.0 0 .0 -1/2 -.50000 00000 0 .0 1/12 .08333 33333 0 .0 -1/144 -.00694 44444 0 .0 1/2880 .00034 72222 0 .0	$J_0(2x)$ Bessel function 1 1.0 0 .0 -1 -1.00000 00000 0 .0 1/4 .25000 00000 0 .0 -1/36 -.02777 77778 0 .0 1/576 .00173 61111 0 .0
$F(1-x, 1+x)$ Ref. 36 1 1.0 0 .0 1/2 .50000 00000 0 .0 1/8 .12500 00000 0 .0 -1/16 -.06250 00000 0 .0 5/128 .03906 25000 0 .0	$\frac{1+x}{1+x+x^2}$ 1 1 0 0 -1 -1 1 1 0 0 -1 -1 1 1 0 0 -1 -1 1 1
$e^{\cos x} - 1$ 1 1.0 0 .0 -1/2 -.50000 00000 0 .0 1/6 .16666 66667 0 .0 -31/720 -.04305 55556 0 .0 379/40320 .00939 98016 0 .0	$F(1-2x, 1+2x)$ Ref. 36 1 1 0 0 2 2 0 0 2 2 0 0 -4 -4 0 0 10 10 0 0
$\sec x$ 1 1.0 0 .0 1/2 .50000 00000 0 .0 5/24 .20833 33333 0 .0 61/720 .08472 22222 0 .0 277/8064 .03435 01984 0 .0	$\frac{3}{2x} \left(\frac{1+x}{\sqrt{x}} \ln \frac{1+\sqrt{x}}{1-\sqrt{x}} + 2 \ln(1-x) - 2 \right)$ 1 1.0 1/10 .10000 00000 1/35 .02857 14286 1/84 .01190 47619 1/165 .00606 06061 1/286 .00349 65035 1/455 .00219 78022 1/680 .00147 05882 1/969 .00103 19917 1/1330 .00075 18797
$\operatorname{sech} x$ 1 1.0 0 .0 -1/2 -.50000 00000 0 .0 5/24 .20833 33333 0 .0 -61/720 -.08472 22222 0 .0 277/8064 .03435 01984 0 .0	$\frac{3}{x} (1 - \ln(1+x) - \frac{1-x}{\sqrt{x}} \arctan x)$ 1 1.0 -1/10 -.10000 00000 1/35 .02857 14286 -1/84 -.01190 47619 1/165 .00606 06061 -1/286 -.00349 65035 1/455 .00219 78022 -1/680 -.00147 05882 1/969 .00103 19917 -1/1330 -.00075 18797

(continued)

Table IV (continued)

$(1 + x)^{1/8}$ 1 1/8 -7/128 35/1024 -805/32768 4991/262144 -64883/4194304 435643/33554432 -23960365/2147483648 167722555/17179869184	1.0 .12500 00000 -.05468 75000 .03417 96875 -.02456 66504 .01903 91541 -.01546 93127 .01298 31731 -.01115 74144 .00976 27376	$(1 - x)^{1/7}$ 1 -1/7 -3/49 -13/343 -65/2401 -351/16807 -1989/117649 -81549/5764801 -489294/40353607 -2990130/282475249	1.0 -.14285 71429 -.06122 44898 -.03790 08746 -.02707 20533 -.02088 41554 -.01690 62210 -.01414 60217 -.01212 51615 -.01058 54584
$(1 - x)^{1/8}$ 1 -1/8 -7/128 -35/1024 -805/32768 -4991/262144 -64883/4194304 -435643/33554432 -23960365/2147483648 -167722555/17179869184	1.0 -.12500 00000 -.05468 75000 -.03417 96875 -.02456 66504 -.01903 91541 -.01546 93127 -.01298 31731 -.01115 74144 -.00976 27376	$(1 - x)^{-1/7}$ 1 1/7 4/49 20/343 110/2401 638/16807 3828/117649 164604/5764801 1028775/40353607 6515575/282475249	1.0 .14285 71429 .08163 26531 .05830 90379 .04581 42441 .03796 03737 .03253 74631 .02855 32840 .02549 40035 .02306 60032
$(1 - x)^{-1/8}$ 1 1/8 9/128 51/1024 1275/32768 8415/262144 115005/4194304 805035/33554432 45886995/2147483648 331406075/17179869184	1.0 .12500 00000 .07031 25000 .04980 46875 .03890 99121 .03210 06775 .02741 93287 .02399 19126 .02136 77972 .01929 03724	$(1 + x)^{-1/7}$ 1 -1/7 4/49 -20/343 110/2401 -638/16807 3828/117649 -164604/5764801 1028775/40353607 -6515575/282475249	1.0 -.14285 71429 .08163 26531 -.05830 90379 .04581 42441 -.03796 03737 .03253 74631 -.02855 32840 .02549 40035 -.02306 60032
$(1 + x)^{-1/8}$ 1 -1/8 9/128 -51/1024 1275/32768 -8415/262144 115005/4194304 -805035/33554432 45886995/2147483648 -331406075/17179869184	1.0 -.12500 00000 .07031 25000 -.04980 46875 .03890 99121 -.03210 06775 .02741 93287 -.02399 19126 .02136 77972 -.01929 03724	$(1 + x)^{1/6}$ 1 1/6 -5/72 55/1296 -935/31104 4301/186624 -124729/6718464 623645/40310784 -25569445/1934917632 1201763915/104485552128	1.0 .16666 66667 -.06944 44444 .04243 82716 -.03006 04424 .02304 63392 -.01856 51065 .01547 09221 -.01321 47460 .01150 17234
$(1 + x)^{1/7}$ 1 1/7 -3/49 13/343 -65/2401 351/16807 -1989/117649 81549/5764801 -489294/40353607 2990130/282475249	1.0 .14285 71429 -.06122 44898 .03790 08746 -.02707 20533 .02088 41554 -.01690 62210 .01414 60217 -.01212 51615 .01058 54584	$(1 - x)^{1/6}$ 1 -1/6 -5/72 -55/1296 -935/31104 -4301/186624 -124729/6718464 -623645/40310784 -25569445/1934917632 -1201763915/104485552128	1.0 -.16666 66667 -.06944 44444 -.04243 82716 -.03006 04424 -.02304 63392 -.01856 51065 -.01547 09221 -.01321 47460 -.01150 17234

(continued)

Table IV (continued)

$(1 - x)^{-1/6}$ <table border="0"> <tr><td>1</td><td>1.0</td><td></td></tr> <tr><td>1/6</td><td>.16666</td><td>66667</td></tr> <tr><td>7/72</td><td>.09722</td><td>22222</td></tr> <tr><td>91/1296</td><td>.07021</td><td>60494</td></tr> <tr><td>1729/31104</td><td>.05558</td><td>77058</td></tr> <tr><td>8645/186624</td><td>.04632</td><td>30881</td></tr> <tr><td>267995/6718464</td><td>.03988</td><td>93259</td></tr> <tr><td>1416545/40310784</td><td>.03514</td><td>05966</td></tr> <tr><td>60911435/1934917632</td><td>.03148</td><td>01178</td></tr> <tr><td>2984660315/104485552128</td><td>.02856</td><td>52921</td></tr> </table>	1	1.0		1/6	.16666	66667	7/72	.09722	22222	91/1296	.07021	60494	1729/31104	.05558	77058	8645/186624	.04632	30881	267995/6718464	.03988	93259	1416545/40310784	.03514	05966	60911435/1934917632	.03148	01178	2984660315/104485552128	.02856	52921	$(1 + x)^{-1/5}$ <table border="0"> <tr><td>1</td><td>1.0</td><td></td></tr> <tr><td>-1/5</td><td>-.20000</td><td>00000</td></tr> <tr><td>3/25</td><td>.12000</td><td>00000</td></tr> <tr><td>-11/125</td><td>-.08800</td><td>00000</td></tr> <tr><td>44/625</td><td>.07040</td><td>00000</td></tr> <tr><td>-924/15625</td><td>-.05913</td><td>60000</td></tr> <tr><td>4004/78125</td><td>.05125</td><td>12000</td></tr> <tr><td>-17732/390625</td><td>-.04539</td><td>39200</td></tr> <tr><td>79794/1953125</td><td>.04085</td><td>45280</td></tr> <tr><td>-363506/9765625</td><td>-.03722</td><td>30144</td></tr> </table>	1	1.0		-1/5	-.20000	00000	3/25	.12000	00000	-11/125	-.08800	00000	44/625	.07040	00000	-924/15625	-.05913	60000	4004/78125	.05125	12000	-17732/390625	-.04539	39200	79794/1953125	.04085	45280	-363506/9765625	-.03722	30144
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Table IV (continued)

$\frac{1}{x} \psi'(\frac{1}{x})$ Ref. 1 1 1.0 1/2 .50000 00000 1/6 .16666 66667 0 .0 -1/30 -.03333 33333 0 .0 1/42 .02380 95238 0 .0 -1/30 -.03333 33333 0 .0	$(1-x)^{-1/2}$ 1 1.0 1/2 .50000 00000 3/8 .37500 00000 5/16 .31250 00000 35/128 .27343 75000 63/256 .24609 37500 231/1024 .22558 59375 429/2048 .20947 26563 6435/32768 .19638 06152 12155/65536 .18547 05811
$\frac{1}{x} \int_0^x F(1, 1+2t) dt$ Ref. 36 1 1.0 1/2 .50000 00000 1/6 .16666 66667 -1/8 -.12500 00000 1/8 .12500 00000 -7/48 -.14583 33333 19/112 .16964 28571 -23/128 -.17968 75000 21/128 .16406 25000 -31/256 -.12109 37500	$(1+x)^{-1/2}$ 1 1.0 -1/2 -.50000 00000 3/8 .37500 00000 -5/16 -.31250 00000 35/128 .27343 75000 -63/256 -.24609 37500 231/1024 .22558 59375 -429/2048 -.20947 26563 6435/32768 .19638 06152 -12155/65536 -.18547 05811
$\frac{1}{2x} \int_0^x \frac{e^{2t}-1}{t} dt$ 1 1.0 1/2 .50000 00000 2/9 .22222 22222 1/12 .08333 33333 2/75 .02666 66667 1/135 .00740 74074 4/2205 .00181 40590 1/2520 .00039 68254 2/25515 .00007 83853 1/70875 .00001 41093	$\frac{2}{x^2}((1-x)^{-1/2} - (1+x)^{1/2})$ 1 1.0 1/2 .50000 00000 5/8 .62500 00000 7/16 .43750 00000 63/128 .49218 75000 99/256 .38671 87500 429/1024 .41894 53125 715/2048 .34912 10938 12155/32768 .37094 11621 20995/65536 .32035 82764
$\frac{1}{x} \ln(1+x)$ 1 1.0 -1/2 -.50000 00000 1/3 .33333 33333 -1/4 -.25000 00000 1/5 .20000 00000 -1/6 -.16666 66667 1/7 .14285 71429 -1/8 -.12500 00000 1/9 .11111 11111 -1/10 -.10000 00000	$\frac{2}{x^2}((1+x)^{-1/2} - (1-x)^{1/2})$ 1 1.0 -1/2 -.50000 00000 5/8 .62500 00000 -7/16 -.43750 00000 63/128 .49218 75000 -99/256 -.38671 87500 429/1024 .41894 53125 -715/2048 -.34912 10938 12155/32768 .37094 11621 -20995/65536 -.32035 82764
$2 \frac{d}{dx} F(1, 1+x)$ Ref. 36 1 1.0 1/2 .50000 00000 -3/8 -.37500 00000 5/16 .31250 00000 -35/128 -.27343 75000 57/256 .22265 62500 -161/1024 -.15722 65625 189/2048 .09228 51563 -1395/32768 -.04257 20215 885/65536 .01350 40283	$(1+x)^{4/7}$ 1 1.0 4/7 .57142 85714 -6/49 -.12244 89796 20/343 .05830 90379 -85/2401 -.03540 19159 408/16807 .02427 55995 -2108/117649 -.01791 77044 80104/5764801 .01389 53626 -450585/40353607 -.01116 59163 2603380/282475249 .00921 63119

(continued)

Table IV (continued)

$(1 - x)^{4/7}$ 1 -4/7 -6/49 -20/343 -85/2401 -408/16807 -2108/117649 -80104/5764801 -450585/40353607 -2603380/282475249	1.0 -.57142 85714 -.12244 89796 -.05830 90379 -.03540 19159 -.02427 55995 -.01791 77044 -.01389 53626 -.01116 59163 -.00921 63119	$(1 - x)^{3/5}$ 1 -3/5 -3/25 -7/125 -21/625 -357/15625 -1309/78125 -5049/390625 -20196/1953125 -83028/9765625	1.0 -.60000 00000 -.12000 00000 -.05600 00000 -.03360 00000 -.02284 80000 -.01675 52000 -.01292 54400 -.01034 03520 -.00850 20672
$(1 - x)^{-4/7}$ 1 4/7 22/49 132/343 825/2401 5280/16807 34320/117649 1578720/5764801 10459020/40353607 69726800/282475249	1.0 .57142 85714 .44897 95918 .38483 96501 .34360 68305 .31415 48164 .29171 51867 .27385 50732 .25918 42657 .24684 21578	$(1 - x)^{-3/5}$ 1 3/5 12/25 52/125 234/625 5382/15625 25116/78125 118404/390625 562419/1953125 2687113/9765625	1.0 .60000 00000 .48000 00000 .41600 00000 .37440 00000 .34444 80000 .32148 48000 .30311 42400 .28795 85280 .27516 03712
$(1 + x)^{-4/7}$ 1 -4/7 22/49 -132/343 825/2401 -5280/16807 34320/117649 -1578720/5764801 10459020/40353607 -69726800/282475249	1.0 -.57142 85714 .44897 95918 -.38483 96501 .34360 68305 -.31415 48164 .29171 51867 -.27385 50732 .25918 42657 -.24684 21578	$(1 + x)^{-3/5}$ 1 -3/5 12/25 -52/125 234/625 -5382/15625 25116/78125 -118404/390625 562419/1953125 -2687113/9765625	1.0 -.60000 00000 .48000 00000 -.41600 00000 .37440 00000 -.34444 80000 .32148 48000 -.30311 42400 .28795 85280 -.27516 03712
$1 + \ln\Gamma(x + 1)$ 1 -Y $\zeta(2)/2$ $-\zeta(3)/3$ $\zeta(4)/4$ $-\zeta(5)/5$ $\zeta(6)/6$ $-\zeta(7)/7$ $\zeta(8)/8$ $-\zeta(9)/9$	Ref. 8, 10 1.0 -.57721 56649 .82246 70334 -.40068 56344 .27058 08084 -.20738 55510 .16955 71770 -.14404 98968 .12550 96695 -.11133 42659	$(1 + x)^{5/8}$ 1 5/8 -15/128 55/1024 -1045/32768 5643/262144 -65835/4194304 404415/33554432 -20625165/2147483648 135209415/17179869184	1.0 .62500 00000 -.11718 75000 .05371 09375 -.03189 08691 .02152 63367 -.01569 62872 .01205 25062 -.00960 43409 .00787 02238
$(1 + x)^{3/5}$ 1 3/5 -3/25 7/125 -21/625 357/15625 -1309/78125 5049/390625 -20196/1953125 83028/9765625	1.0 .60000 00000 -.12000 00000 .05600 00000 -.03360 00000 .02284 80000 -.01675 52000 .01292 54400 -.01034 03520 .00850 20672	$(1 - x)^{5/8}$ 1 -5/8 -15/128 -55/1024 -1045/32768 -5643/262144 -65835/4194304 -404415/33554432 -20625165/2147483648 -135209415/17179869184	1.0 -.62500 00000 -.11718 75000 -.05371 09375 -.03189 08691 -.02152 63367 -.01569 62872 -.01205 25062 -.00960 43409 -.00787 02238

(continued)

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<p>$(1 - x)^{-5/8}$</p> <table border="0"> <tr><td>1</td><td>1.0</td></tr> <tr><td>5/8</td><td>.62500 00000</td></tr> <tr><td>65/128</td><td>.50781 25000</td></tr> <tr><td>455/1024</td><td>.44433 59375</td></tr> <tr><td>13195/32768</td><td>.40267 94434</td></tr> <tr><td>97643/262144</td><td>.37247 84851</td></tr> <tr><td>1464645/4194304</td><td>.34919 85798</td></tr> <tr><td>11089455/33554432</td><td>.33049 15130</td></tr> <tr><td>676456755/2147483648</td><td>.31499 97233</td></tr> <tr><td>5186168455/17179869184</td><td>.30187 47349</td></tr> </table>	1	1.0	5/8	.62500 00000	65/128	.50781 25000	455/1024	.44433 59375	13195/32768	.40267 94434	97643/262144	.37247 84851	1464645/4194304	.34919 85798	11089455/33554432	.33049 15130	676456755/2147483648	.31499 97233	5186168455/17179869184	.30187 47349	<p>$(1 + x)^{-2/3}$</p> <table border="0"> <tr><td>1</td><td>1.0</td></tr> <tr><td>-2/3</td><td>-.66666 66667</td></tr> <tr><td>5/9</td><td>.55555 55556</td></tr> <tr><td>-40/81</td><td>-.49382 71605</td></tr> <tr><td>110/243</td><td>.45267 48971</td></tr> <tr><td>-308/729</td><td>-.42249 65706</td></tr> <tr><td>2618/6561</td><td>.39902 45389</td></tr> <tr><td>-7480/19683</td><td>-.38002 33704</td></tr> <tr><td>21505/59049</td><td>.36418 90633</td></tr> <tr><td>-559130/1594323</td><td>-.35070 05795</td></tr> </table>	1	1.0	-2/3	-.66666 66667	5/9	.55555 55556	-40/81	-.49382 71605	110/243	.45267 48971	-308/729	-.42249 65706	2618/6561	.39902 45389	-7480/19683	-.38002 33704	21505/59049	.36418 90633	-559130/1594323	-.35070 05795
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Table IV (continued)

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21505/31104	.69139	01749																																																																	
-124729/186624	-.66834	38357																																																																	
4365515/6718464	.64977	87292																																																																	
-25569445/40310784	-.63430	78071																																																																	
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(continued)

Table IV (continued)

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Table IV (continued)

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$\frac{1+x}{(1-x)^2}$ 1 3 5 7 9 11 13 15 17 19	$(1 - x)^{-7/2}$ 1 1.0 7/2 3.50000 00000 63/8 7.87500 00000 231/16 14.43750 00000 3003/128 23.46093 75000 9009/256 35.19140 62500 51051/1024 49.85449 21875 138567/2048 67.65966 79688 2909907/32768 88.80331 42090 7436429/65536 113.47090 14893
$\frac{1}{(1-x)^3}$ 1 3 6 10 15 21 28 36 45 55	$(1 + x)^{-7/2}$ 1 1.0 -7/2 -3.50000 00000 63/8 7.87500 00000 -231/16 -14.43750 00000 3003/128 23.46093 75000 -9009/256 -35.19140 62500 51051/1024 49.85449 21875 -138567/2048 -67.65966 79688 2909907/32768 88.80331 42090 -7436429/65536 -113.47090 14893
$\frac{1}{(1+x)^3}$ 1 -3 6 -10 15 -21 28 -36 45 -55	$\frac{1+x}{(1-x)^3}$ 1 4 9 16 25 36 49 64 81 100

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Table IV (continued)

$\frac{1}{(1-x)^4}$ <p>1 4 10 20 35 56 84 120 165 220</p>	$\frac{1+4x+x^2}{(1-x)^4}$ <p>1 8 27 64 125 216 343 512 729 1000</p>
$\frac{1}{(1+x)^4}$ <p>1 -4 10 -20 35 -56 84 -120 165 -220</p>	$\frac{1}{(1+x)^8}$ <p>1 -8 36 -120 330 -792 1716 -3432 6435 -11440</p>
$\frac{1}{(1+x)^5}$ <p>1 -5 15 -35 70 -126 210 -330 495 -715</p>	$\frac{1+6x+x^2}{(1-x)^3}$ <p>1 9 25 49 81 121 169 225 289 361</p>
$\frac{1}{(1+x)^6}$ <p>1 -6 21 -56 126 -252 462 -792 1287 -2002</p>	$\frac{1}{(1+x)^9}$ <p>1 -9 45 -165 495 -1287 3003 -6435 12870 -24310</p>
$\frac{1}{(1+x)^7}$ <p>1 -7 28 -84 210 -462 924 -1716 3003 -5005</p>	$\frac{1}{(1+x)^{10}}$ <p>1 -10 55 -220 715 -2002 5005 -11440 24310 -48620</p>

(continued)

Table IV (continued)

$\frac{1}{(1+x)^{11}}$ <p>1 -11 66 -286 1001 -3003 8008 -19448 43758 -92378</p>	$\frac{1}{(1+x)^{16}}$ <p>1 -16 136 -816 3876 -15504 54264 -170544 490314 -1307504</p>
$\frac{1}{(1+x)^{12}}$ <p>1 -12 78 -364 1365 -4368 12376 -31824 75582 -167960</p>	$\frac{1}{(1+x)^{17}}$ <p>1 -17 153 -969 4845 -20349 74613 -245157 735471 -2042975</p>
$\frac{1}{(1+x)^{13}}$ <p>1 -13 91 -455 1820 -6188 18564 -50388 125970 -293930</p>	$\frac{1}{(1+x)^{18}}$ <p>1 -18 171 -1140 5985 -26334 100947 -346104 1081575 -3124550</p>
$\frac{1}{(1+x)^{14}}$ <p>1 -14 105 -560 2380 -8568 27132 -77520 203490 -497420</p>	$\frac{1}{(1+x)^{19}}$ <p>1 -19 190 -1330 7315 -33649 134596 -480700 1562275 -4686825</p>
$\frac{1}{(1+x)^{15}}$ <p>1 -15 120 -680 3060 -11628 38760 -116280 319770 -817190</p>	$\frac{1}{(1+x)^{20}}$ <p>1 -20 210 -1540 8855 -42504 177100 -657800 2220075 -6906900</p>

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8.

$$\zeta(x) = \sum_{k=1}^{\infty} k^{-x} \quad \text{See Ref. 1, page 807}$$

$$\eta(x) = \sum_{k=1}^{\infty} (-1)^{k-1} k^{-x} = (1 - 2^{1-x})\zeta(x)$$

$$\lambda(x) = \sum_{k=0}^{\infty} (2k+1)^{-x} = (1 - 2^{-x})\zeta(x)$$

$$\beta(x) = \sum_{k=0}^{\infty} (-1)^k (2k+1)^{-x}$$

9.

Exponential integral

See Ref. 1, pages 228-233

$$E_n(x) = x^{n-1} \int_x^{\infty} \frac{e^{-t}}{t^n} dt$$

$$Ei(x) = \int_{-\infty}^x \frac{e^t}{t} dt$$

Sine integral

$$Si(x) = \int_0^x \frac{\sin t}{t} dt$$

Cosine integral

$$Ci(x) = \int_0^x \frac{\cos t - 1}{t} dt + \gamma + \ln x$$

Hyperbolic sine integral

$$\text{Shi}(x) = \int_0^x \frac{\sinh t}{t} dt = \frac{\text{Ei}(x) + \text{E}_1(x)}{2}$$

Hyperbolic cosine integral

$$\text{Chi}(x) = \int_0^x \frac{\cosh t - 1}{t} dt + \gamma + \ln x = \frac{\text{Ei}(x) - \text{E}_1(x)}{2}$$

10. 0.57721 ... = γ = Euler's constant

$$= \lim_{n \rightarrow \infty} (1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \dots + \frac{1}{n} - \ln n)$$

See Ref. 1 or 2

11. 0.26149 ... = $g = \lim_{p \rightarrow \infty} (\frac{1}{2} + \frac{1}{3} + \frac{1}{5} + \dots + \frac{1}{p} - \ln \ln p)$ $p = \text{primes}$

See Ref. 2

12. 0.83242 ... = D_∞ See Ref. 2

$$0.18340 \dots = -\ln D_\infty$$

$$= \lim_{p \rightarrow \infty} (\ln(\frac{3}{1} \cdot \frac{5}{3} \dots \frac{p}{p-2}) - 2 \ln \ln p)$$

where $p = \text{odd primes}$

13. 1.70195 ... This value is given by C. E. Fröberg, BIT 1, 20 (1961).
 Carrying the calculation to 1979681 gives 1.70213.

14. 0.59263 ... = Lehmer's constant, ξ
 $\xi = \cot(\operatorname{arccot} 0 - \operatorname{arccot} 1 + \operatorname{arccot} 3 - \operatorname{arccot} 13 + \operatorname{arccot} 183 -$
 $\operatorname{arccot} 33673 + \dots)$. See D. H. Lehmer, Duke Math. Soc. 4, 334 (1938).

15. $[a_0, a_1, a_2, \dots]$ is the continued fraction formed with the terms
 shown. See Ref. 1, page 19, or A. Ya. Khintchine, Ref. 16.

16. Khintchine's constant

$$2.68545 \dots = K = \prod_{n=1}^{\infty} \left(1 + \frac{1}{n^2 + 2n} \right)^{(\ln n)/\ln 2}$$

See A. Ya. Khintchine, Continued Fractions, P. Noordhoff, Ltd. The
 Netherlands, 1963, and also J. W. Wrench, Jr., "Further Evaluation of
 Khintchine's Constant", Math. Comp. 14, 370 (1960).

17. 2.30384 ... The integer terms a_i of the continued fraction are the
 largest possible such that for all n ,

$$\prod_n < K^{n+1}$$

$$\text{where } \prod_n = \prod_{i=0}^n a_i$$

and $K =$ Khintchine's constant, Ref. 16.

The recursion formula is

$$a_{n+1} = \left[\frac{K^{n+2}}{\Pi_n} \right]$$

where $a_0 = \Pi_0 = 2$ and $[x] =$ largest integer less than x .

- 18. 3.30384 ... The integer terms a_i of the continued fraction are the smallest possible such that for all n ,

$$\Pi_n > K^{n+1}$$

$$\text{where } \Pi_n = \prod_{i=0}^n a_i$$

and $K =$ Khintchine's constant, Ref. 16.

The recursion formula is

$$a_{n+1} = \left[\frac{K^{n+2}}{\Pi_n} \right] + 1$$

where $a_0 = \Pi_0 = 3$ and $[x] =$ largest integer less than x .

- 19. 2.22475 ... The integer terms a_i of the continued fraction are such that for all n , Π_n is just less than K^{n+1} when n is even and just greater than K^{n+1} when n is odd. The recursion formulas are

$$a_{n+1} = \left[\frac{K^{n+2}}{\Pi_n} \right] + 1 \quad n \text{ even}$$

$$a_{n+1} = \left[\frac{K^{n+2}}{\Pi_n} \right] \quad n \text{ odd}$$

$a_0 = \Pi_0 = 2$, $\Pi_n = \prod_{i=0}^n a_i$, $[x]$ = largest integer less than x and K = Khintchine's constant, Ref. 16.

20. 3.44935 ... The integer terms a_i of the continued fraction are such that for all n , Π_n is just greater than K^{n+1} when n is even and just less than K^{n+1} when n is odd. The recursion formulas are

$$a_{n+1} = \left[\frac{K^{n+2}}{\Pi_n} \right] \quad n \text{ even}$$

$$a_{n+1} = \left[\frac{K^{n+2}}{\Pi_n} \right] + 1 \quad n \text{ odd}$$

$a_0 = \Pi_0 = 3$, $\Pi_n = \prod_{i=0}^n a_i$, $[x]$ = largest integer less than x , and K = Khintchine's constant, Ref. 16.

21. Du Bois-Reymond Constant

$$c_n = \int_0^\infty \left| \frac{d}{dt} (\sin t/t)^n \right| dt - 1 \quad \text{See Ref. 2}$$

$$c_2 = 0.19452 \dots$$

$$c_3 = 0.02825 \dots$$

$$c_4 = 0.00524 \dots$$

$$c_6 = 0.00022 \dots$$

22. $1.52173 \dots = C = \prod_p (1 - 1/p)^{-2} (1 - (2 + u(p))/p)$

$$u(p) = -1 \text{ if } p \equiv -1 \pmod{3}$$

$$= 0 \text{ if } p \equiv 0 \pmod{3}$$

$$= 1 \text{ if } p \equiv 1 \pmod{3}$$

$p = \text{all primes}$

23. $C_n = \prod_{p>n} \left[\left(\frac{p}{p-1} \right)^{n-1} \left(\frac{p-n}{p-1} \right) \right] \quad p = \text{primes} > n$

$C_2 = 0.66016 \dots$ Twin-prime constant.

$C_3 = 0.63516 \dots$ See Ref. 2 and also

$C_4 = 0.30749 \dots$ J. W. Wrench, Jr., Math. Comp. 15, 396 (1961).

$0.37395 \dots = A = \prod_p (1 - 1/(p^2 - p))$ $p = \text{all primes}$

$A = \text{Artin's constant}$

24. The terms p are primes of the form $3n \pm 1$. The sign is + if $p = 3n - 1$.

See Ref. 7.

25. The terms p are primes of the form $4n \pm 1$. The sign is + if $p = 4n - 1$.

See Ref. 7.

26. The terms are primes of the form $4n + 1$.

27. The terms are primes of the form $4n - 1$.

28. The terms p are primes of the form $6n \pm 1$. The sign is + if $p = 6n - 1$.

See Ref. 7.

For 0.14194 ... Glaisher gives 0.14194 48385 33 .

For 0.64194 ... Glaisher gives 0.64194 48385 33 .

29. The terms p are primes of the form $12n \pm 1$. The sign is + if $p = 12n - 1$.

See Ref. 7.

30. The terms p are primes of the form $12n \pm 5$. The sign is + if $p = 12n + 5$.

See Ref. 7.

For 0.07014 ... Glaisher gives 0.07014 84232 83 .

31. The terms are taken from the Fibonacci sequence 0,1,1,2,3,5,8,13,

$$F_{i+2} = F_{i+1} + F_i \quad F_0 = 0 \quad F_1 = 1$$

32. $2.35988 \dots = \phi_1 = 1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{5} + \frac{1}{8} + \dots$

$0.71085 \dots = \phi_2 = 1 - \frac{1}{2} + \frac{1}{3} - \frac{1}{5} + \frac{1}{8} - \dots$

The terms are Fibonacci numbers. See Ref. 31.

33. $a_{n+1} = 1 + n + \binom{n}{2}a_2 + \binom{n}{3}a_3 + \dots + a_n$

$$a_0 = a_1 = 1 \quad a_2 = 2 \quad a_3 = 5 \quad a_4 = 15$$

The function a_n resulted from a problem involving cable splicing suggested by Prof. J. R. Woodyard. A solution in the form a_n was provided by Prof. Herbert Robbins.

34. Planck's radiation function is

$$y = x^{-5} \left(e^{1/x} - 1 \right)^{-1}$$

0.20140 ... = x makes y a maximum

21.20143 ... is maximum value of y

35. Dawson's integral $D(x) = e^{-x^2} \int_0^x e^{t^2} dt$ See Ref. 1, page 298

0.42768 ... is value of D at inflection point

1.50197 ... is value of x at inflection point

0.54104 ... is maximum value of D, = D_{\max}

0.92413 ... is value of x at D_{\max} , = $1/(2 D_{\max})$

36. $F(A,B) = \lim_{n \rightarrow \infty} a_n = \lim_{n \rightarrow \infty} b_n$

where

$$a_{n+1} = \frac{a_n + b_n}{2}$$

$$b_{n+1} = \frac{a_n^2 + b_n^2}{a_n + b_n}$$

$$a_0 = A, b_0 = B$$

37. Arithmetic-Geometric mean of Gauss

$$G(A,B) = \lim_{n \rightarrow \infty} a_n = \lim_{n \rightarrow \infty} b_n$$

where

$$a_{n+1} = \frac{a_n + b_n}{2}$$

$$b_{n+1} = \sqrt{a_n b_n}$$

$$a_0 = A, b_0 = B$$

38. $H(A,B) = \lim_{n \rightarrow \infty} a_n = \lim_{n \rightarrow \infty} b_n$

where

$$a_{n+1} = \frac{a_n + b_n}{2}$$

$$b_{n+1} = \sqrt{\frac{a_n^2 + b_n^2}{2}}$$

$$a_0 = A, b_0 = B$$

39. $3.89115 \dots = (7\sqrt{3} - \sqrt{15})/12 + \sqrt{18 - 6\sqrt{5}}/3 + (1 + \sqrt{5})\sqrt{10 - 2\sqrt{5}}/8$
 $\quad \quad \quad + \sqrt{5 + 2\sqrt{5}}/2$

This is the minimum total length of lines tying together the five points of a regular pentagon having unit sides.

40. $0.05233 \dots = \sin 3^\circ = (1/16)(2\sqrt{5 + \sqrt{5}} - 2\sqrt{15 + 3\sqrt{5}} - \sqrt{2} - \sqrt{6} + \sqrt{10} + \sqrt{30})$

$0.99862 \dots = \cos 3^\circ = (1/16)(2\sqrt{5 + \sqrt{5}} + 2\sqrt{15 + 3\sqrt{5}} + \sqrt{2} - \sqrt{6} - \sqrt{10} + \sqrt{30})$

41. $1.83928 \dots = (1/3)(1 + (19 + \sqrt{297})^{1/3} + (19 - \sqrt{297})^{1/3})$
 $= \text{root of } x^3 - x^2 - x - 1 = 0$

This root is the limit of the ratio of adjacent terms formed in the same manner as Fibonacci numbers (Ref. 31), but adding three terms instead of two.

42. $\sin 10^4 = -\sin 17^\circ.79513\ 08232\ 08767\ 98155$
 $\cos 10^4 = -\cos 17^\circ.79513\ 08232\ 08767\ 98155$

43. $137.03859 \dots = e^u$
 $4.92026 \dots = u = \text{root of } x^3 + 5x^2 + 2x - 250 = 0$

44.
$$f(x) = \left[1 - 2^x \left(\frac{x \ln 2}{2^x - 1} \right)^2 \right]^{-\frac{1}{2}}$$

45. An automorphic number is one the square of which ends in the given number.

46. A perfect number is a number such that the sum of all the factors, including 1, is equal to the number.

