

CIRCULAR SINES AND COSINES FOR LARGE RADIAN ARGUMENTS Table 4.8

x	$\sin x$					$\cos x$				
0	0.00000	00000	00000	00000	000	1.00000	00000	00000	00000	000
1	+0.84147	09848	07896	50665	250	+0.54030	23058	68139	71740	094
2	+0.90929	74268	25681	69539	602	-0.41614	68365	47142	38699	757
3	+0.14112	00080	59867	22210	074	-0.98999	24966	00445	45727	157
4	-0.75680	24953	07928	25137	264	-0.65364	36208	63611	91463	917
5	-0.95892	42746	63138	46889	315	+0.28366	21854	63226	26446	664
6	-0.27941	54981	98925	87281	156	+0.96017	02866	50366	02054	565
7	+0.65698	65987	18789	09039	700	+0.75390	22543	43304	63814	120
8	+0.98935	82466	23381	77780	812	-0.14550	00338	08613	52586	884
9	+0.41211	84852	41756	56975	627	-0.91113	02618	84676	98836	829
10	-0.54402	11108	89369	81340	475	-0.83907	15290	76452	45225	886
11	-0.99999	02065	50703	45705	156	+0.00442	56979	88050	78574	836
12	-0.53657	29180	00434	97166	537	+0.84385	39587	32492	10465	396
13	+0.42016	70368	26640	92186	896	+0.90744	67814	50196	21385	269
14	+0.99060	73556	94870	30787	535	+0.13673	72182	07833	59424	893
15	+0.65028	78401	57116	86582	974	-0.75968	79128	58821	27384	815
16	-0.28790	33166	65065	29478	446	-0.95765	94803	23384	64189	964
17	-0.96139	74918	79556	85726	164	-0.27516	33380	51596	92222	034
18	-0.75098	72467	71676	10375	016	+0.66031	67082	44080	14481	610
19	+0.14987	72096	62952	32975	424	+0.98870	46181	86669	25289	835
20	+0.91294	52507	27627	65437	610	+0.40808	20618	13391	98606	227
21	+0.83665	56385	36056	03186	648	-0.54772	92602	24268	42138	427
22	-0.00885	13092	90403	87592	169	-0.99996	08263	94637	12645	417
23	-0.84622	04041	75170	63524	133	-0.53283	30203	33397	55521	576
24	-0.90557	83620	06623	84513	579	+0.42417	90073	36996	97593	705
25	-0.13235	17500	97773	02890	201	+0.99120	28118	63473	59808	329
26	+0.76255	84504	79602	73751	582	+0.64691	93223	28640	34272	138
27	+0.95637	59284	04503	01343	234	-0.29213	88087	33836	19337	140
28	+0.27090	57883	07869	01998	634	-0.96260	58663	13566	60197	545
29	-0.66363	38842	12967	50215	117	-0.74805	75296	89000	35176	519
30	-0.98803	16240	92861	78998	775	+0.15425	14498	87584	05071	866
31	-0.40403	76453	23065	00604	877	+0.91474	23578	04531	27896	244
32	+0.55142	66812	41690	55066	156	+0.83422	33605	06510	27221	553
33	+0.99991	18601	07267	14572	808	-0.01327	67472	23059	47891	522
34	+0.52908	26861	20023	82083	249	-0.84857	02747	84605	18659	997
35	-0.42818	26694	96151	00440	675	-0.90369	22050	91506	75984	730
36	-0.99177	88534	43115	73683	529	-0.12796	36896	27404	68102	833
37	-0.64353	81333	56999	46068	567	+0.76541	40519	45343	35649	108
38	+0.29636	85787	09385	31739	230	+0.95507	36440	47294	85758	654
39	+0.96379	53862	84087	75326	066	+0.26664	29323	59937	25152	683
40	+0.74511	31604	79348	78698	771	-0.66693	80616	52261	84438	409
41	-0.15862	26688	04708	98710	332	-0.98733	92775	23826	45822	883
42	-0.91652	15479	15633	78589	899	-0.39998	53149	88351	29395	471
43	-0.83177	47426	28598	28820	958	+0.55511	33015	20625	67704	483
44	+0.01770	19251	05413	57780	795	+0.99984	33086	47691	22006	901
45	+0.85090	35245	34118	42486	238	+0.52532	19888	17729	69604	746
46	+0.90178	83476	48809	18503	329	-0.43217	79448	84778	29495	278
47	+0.12357	31227	45224	00406	153	-0.99233	54691	50928	71827	975
48	-0.76825	46613	23666	79904	497	-0.64014	43394	69199	73131	294
49	-0.95375	26527	59471	81836	042	+0.30059	25437	43637	08368	703
50	-0.26237	48537	03928	78591	439	+0.96496	60284	92113	27406	896

From C. E. Van Orstrand, Tables of the exponential function and of the circular sine and cosine to radian arguments, *Memoirs of the National Academy of Sciences*, vol. 14, Fifth Memoir. U.S.

Government Printing Office, Washington, D.C., 1921 (with permission) for $x \leq 100$.

Table 4.8 CIRCULAR SINES AND COSINES FOR LARGE RADIAN ARGUMENTS

x	$\sin x$					$\cos x$				
50	-0.26237	48537	03928	78591	439	+0.96496	60284	92113	27406	896
51	+0.67022	91758	43374	73449	435	+0.74215	41968	13782	53946	738
52	+0.98662	75920	40485	29658	757	-0.16299	07807	95705	48100	333
53	+0.39592	51501	81834	18150	339	-0.91828	27862	12118	89119	973
54	-0.55878	90488	51616	24581	787	-0.82930	98328	63150	14772	785
55	-0.99975	51733	58619	83659	863	+0.02212	67562	61955	73456	356
56	-0.52155	10020	86911	88018	741	+0.85322	01077	22584	11396	968
57	+0.43616	47552	47824	95908	053	+0.89986	68269	69193	78650	300
58	+0.99287	26480	84537	11816	509	+0.11918	-01354	48819	28543	584
59	+0.63673	80071	39137	88077	123	-0.77108	02229	75845	22938	744
60	-0.30481	06211	02216	70562	565	-0.95241	29804	15156	29269	382
61	-0.96611	77700	08392	94701	829	-0.25810	16359	38267	44570	121
62	-0.73918	06966	49222	86727	602	+0.67350	71623	23586	25288	783
63	+0.16735	57003	02806	92152	784	+0.98589	65815	82549	69743	864
64	+0.92002	60381	96790	68335	154	+0.39185	72304	29550	00516	171
65	+0.82682	86794	90103	46771	021	-0.56245	38512	38172	03106	212
66	-0.02655	11540	23966	79446	384	-0.99964	74559	66349	96483	045
67	-0.85551	99789	75322	25899	683	-0.51776	97997	89505	06565	339
68	-0.89792	76806	89291	26040	073	+0.44014	30224	96040	70593	105
69	-0.11478	48137	83187	22054	507	+0.99339	03797	22271	63756	155
70	+0.77389	06815	57889	09778	733	+0.63331	92030	86299	83233	201
71	+0.95105	46532	54374	63665	657	-0.30902	27281	66070	70291	749
72	+0.25382	33627	62036	27306	903	-0.96725	05882	73882	48729	171
73	-0.67677	19568	87307	62215	498	-0.73619	27182	27315	96016	815
74	-0.98514	62604	68247	37085	189	+0.17171	73418	30777	55609	845
75	-0.38778	16354	09430	43773	094	+0.92175	12697	24749	31639	230
76	+0.56610	76368	98180	32361	028	+0.82433	13311	07557	75991	501
77	+0.99952	01585	80731	24386	610	-0.03097	50317	31216	45752	196
78	+0.51397	84559	87535	21169	609	-0.85780	30932	44987	85540	835
79	-0.44411	26687	07508	36850	760	-0.89597	09467	90963	14833	703
80	-0.99388	86539	23375	18973	081	-0.11038	72438	39047	55811	787
81	-0.62988	79942	74453	87856	521	+0.77668	59820	21631	15768	342
82	+0.31322	87824	33085	15263	353	+0.94967	76978	82543	20471	326
83	+0.96836	44611	00185	40435	015	+0.24954	01179	73338	12437	735
84	+0.73319	03200	73292	16636	321	-0.68002	34955	87338	79542	720
85	-0.17607	56199	48587	07696	212	-0.98437	66433	94041	89491	821
86	-0.92345	84470	04059	80260	163	-0.38369	84449	49741	84477	893
87	-0.82181	78366	30822	54487	211	+0.56975	03342	65311	92000	851
88	+0.03539	83027	33660	68362	543	+0.99937	32836	95124	65698	442
89	+0.86006	94058	12453	22683	685	+0.51017	70449	41668	89902	379
90	+0.89399	66636	00557	89051	827	-0.44807	36161	29170	15236	548
91	+0.10598	75117	51156	85002	021	-0.99436	74609	28201	52610	672
92	-0.77946	60696	15804	68855	400	-0.62644	44479	10339	06880	027
93	-0.94828	21412	69947	23213	104	+0.31742	87015	19701	64974	551
94	-0.24525	19854	67654	32522	044	+0.96945	93666	69987	60380	439
95	+0.68326	17147	36120	98369	958	+0.73017	35609	94819	66479	352
96	+0.98358	77454	34344	85760	773	-0.18043	04492	91083	95011	850
97	+0.37960	77390	27521	69648	192	-0.92514	75365	96413	89170	475
98	-0.57338	18719	90422	88494	922	-0.81928	82452	91459	25267	566
99	-0.99920	68341	86353	69443	272	+0.03982	08803	93138	89816	180
100	-0.50636	56411	09758	79365	656	+0.86231	88722	87683	93410	194

CIRCULAR SINES AND COSINES FOR LARGE RADIAN ARGUMENTS

Table 4.8

x	$\sin x$	$\cos x$	x	$\sin x$	$\cos x$
100	-0.50636 564	+0.86231 887	150	-0.71487 643	+0.69925 081
101	+0.45202 579	+0.89200 487	151	+0.20214 988	+0.97935 460
102	+0.99482 679	+0.10158 570	152	+0.93332 052	+0.35904 429
103	+0.62298 863	-0.78223 089	153	+0.80640 058	-0.59136 968
104	-0.32162 240	-0.94686 801	154	-0.06192 034	-0.99808 109
105	-0.97053 528	-0.24095 905	155	-0.87331 198	-0.48716 135
106	-0.72714 250	+0.68648 655	156	-0.88178 462	+0.47165 229
107	+0.18478 174	+0.98277 958	157	-0.07954 854	+0.99683 099
108	+0.92681 851	+0.37550 960	158	+0.79582 410	+0.60552 787
109	+0.81674 261	-0.57700 218	159	+0.93951 973	-0.34249 478
110	-0.04424 268	-0.99902 081	160	+0.21942 526	-0.97562 931
111	-0.86455 145	-0.50254 432	161	-0.70240 779	-0.71177 476
112	-0.88999 560	+0.45596 910	162	-0.97845 035	+0.20648 223
113	-0.09718 191	+0.99526 664	163	-0.35491 018	+0.93490 040
114	+0.78498 039	+0.61952 061	164	+0.59493 278	+0.80377 546
115	+0.94543 533	-0.32580 981	165	+0.99779 728	-0.06633 694
116	+0.23666 139	-0.97159 219	166	+0.48329 156	-0.87545 946
117	-0.68969 794	-0.72409 720	167	-0.47555 019	-0.87968 859
118	-0.98195 217	+0.18912 942	168	-0.99717 329	-0.07513 609
119	-0.37140 410	+0.92847 132	169	-0.60199 987	+0.79849 619
120	+0.58061 118	+0.81418 097	170	+0.34664 946	+0.93799 475
121	+0.99881 522	-0.04866 361	171	+0.97659 087	+0.21510 527
122	+0.49871 315	-0.86676 709	172	+0.70865 914	-0.70555 101
123	-0.45990 349	-0.88796 891	173	-0.21081 053	-0.97752 694
124	-0.99568 699	-0.09277 620	174	-0.93646 197	-0.35076 911
125	-0.61604 046	+0.78771 451	175	-0.80113 460	+0.59848 422
126	+0.32999 083	+0.94398 414	176	+0.07075 224	+0.99749 392
127	+0.97263 007	+0.23235 910	177	+0.87758 979	+0.47941 231
128	+0.72103 771	-0.69289 582	178	+0.87757 534	-0.47943 877
129	-0.19347 339	-0.98110 552	179	+0.07072 217	-0.99749 605
130	-0.93010 595	-0.36729 133	180	-0.80115 264	-0.59846 007
131	-0.81160 339	+0.58420 882	181	-0.93645 140	+0.35079 734
132	+0.05308 359	+0.99859 007	182	-0.21078 107	+0.97753 329
133	+0.86896 576	+0.49487 222	183	+0.70868 041	+0.70552 964
134	+0.88592 482	-0.46382 887	184	+0.97658 438	-0.21513 471
135	+0.08836 869	-0.99608 784	185	+0.34662 118	-0.93800 520
136	-0.79043 321	-0.61254 824	186	-0.60202 394	-0.79847 804
137	-0.94251 445	+0.33416 538	187	-0.99717 102	+0.07516 615
138	-0.22805 226	+0.97364 889	188	-0.47552 367	+0.87970 293
139	+0.69608 013	+0.71796 410	189	+0.48331 795	+0.87544 489
140	+0.98023 966	-0.19781 357	190	+0.99779 928	+0.06630 686
141	+0.36317 137	-0.93172 236	191	+0.59490 855	-0.80379 339
142	-0.58779 501	-0.80900 991	192	-0.35493 836	-0.93488 971
143	-0.99834 536	+0.05750 253	193	-0.97845 657	-0.20645 273
144	-0.49102 159	+0.87114 740	194	-0.70238 633	+0.71179 593
145	+0.46774 516	+0.88386 337	195	+0.21945 467	+0.97562 270
146	+0.99646 917	+0.08395 944	196	+0.93953 006	+0.34246 646
147	+0.60904 402	-0.79313 642	197	+0.79580 584	-0.60555 186
148	-0.33833 339	-0.94102 631	198	-0.07957 859	-0.99682 859
149	-0.97464 865	-0.22374 095	199	-0.88179 884	-0.47162 571
150	-0.71487 643	+0.69925 081	200	-0.87329 730	+0.48718 768

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x	$\sin x$	$\cos x$	x	$\sin x$	$\cos x$
200	-0.87329 730	+0.48718 768	250	-0.97052 802	+0.24098 831
201	-0.06189 025	+0.99808 296	251	-0.32159 386	+0.94687 771
202	+0.80641 841	+0.59134 538	252	+0.62301 221	+0.78221 211
203	+0.93330 970	-0.35907 242	253	+0.99482 373	-0.10161 569
204	+0.20212 036	-0.97936 069	254	+0.45199 890	-0.89201 850
205	-0.71489 751	-0.69922 926	255	-0.50639 163	-0.86230 361
206	-0.97464 190	+0.22377 033	256	-0.99920 803	-0.03979 076
207	-0.33830 503	+0.94103 651	257	-0.57335 717	+0.81930 553
208	+0.60906 793	+0.79311 806	258	+0.37963 563	+0.92513 609
209	+0.99646 664	-0.08398 947	259	+0.98359 318	+0.18040 080
210	+0.46771 852	-0.88387 747	260	+0.68323 970	-0.73019 416
211	-0.49104 785	-0.87113 260	261	-0.24528 121	-0.96945 197
212	-0.99834 709	-0.05747 243	262	-0.94829 171	-0.31740 012
213	-0.58777 062	+0.80902 763	263	-0.77944 719	+0.62646 794
214	+0.36319 945	+0.93171 141	264	+0.10601 749	+0.99436 427
215	+0.98024 562	+0.19778 403	265	+0.89401 017	+0.44804 667
216	+0.69605 849	-0.71798 508	266	+0.86005 403	-0.51020 297
217	-0.22808 161	-0.97364 202	267	+0.03536 818	-0.99937 435
218	-0.94252 453	-0.33413 697	268	-0.82183 501	-0.56972 556
219	-0.79041 474	+0.61257 207	269	-0.92344 688	+0.38372 628
220	+0.08839 871	+0.99608 517	270	-0.17604 595	+0.98438 195
221	+0.88593 880	+0.46380 216	271	+0.73321 082	+0.68000 139
222	+0.86895 084	-0.49489 841	272	+0.96835 694	-0.24956 931
223	+0.05305 349	-0.99859 167	273	+0.31320 015	-0.94968 714
224	-0.81162 100	-0.58418 435	274	-0.62991 141	-0.77666 699
225	-0.93009 488	+0.36731 937	275	-0.99388 533	+0.11041 720
226	-0.19344 382	+0.98111 135	276	-0.44408 566	+0.89598 433
227	+0.72105 860	+0.69287 409	277	+0.51400 431	+0.85778 760
228	+0.97262 306	-0.23238 842	278	+0.99952 109	+0.03094 490
229	+0.32996 237	-0.94399 409	279	+0.56608 279	-0.82434 840
230	-0.61606 420	-0.78769 594	280	-0.38780 942	-0.92173 958
231	-0.99568 419	+0.09280 622	281	-0.98515 144	-0.17168 765
232	-0.45987 672	+0.88798 277	282	-0.67674 976	+0.73621 312
233	+0.49873 928	+0.86675 206	283	+0.25385 252	+0.96724 294
234	+0.99881 669	+0.04863 350	284	+0.95106 397	+0.30899 406
235	+0.58058 664	-0.81419 847	285	+0.77387 159	-0.63334 253
236	-0.37143 209	-0.92846 012	286	-0.11481 476	-0.99338 692
237	-0.98195 787	-0.18909 982	287	-0.89794 095	-0.44011 595
238	-0.68967 611	+0.72411 799	288	-0.85550 437	+0.51779 559
239	+0.23669 068	+0.97158 506	289	-0.02652 102	+0.99964 826
240	+0.94544 515	+0.32578 131	290	+0.82684 563	+0.56242 893
241	+0.78496 171	-0.61954 428	291	+0.92001 423	-0.39188 496
242	-0.09721 191	-0.99526 371	292	+0.16732 598	-0.98590 163
243	-0.89000 935	-0.45594 228	293	-0.73920 100	-0.67348 488
244	-0.86453 630	+0.50257 038	294	-0.96610 999	+0.25813 076
245	-0.04421 256	+0.99902 215	295	-0.30478 191	+0.95242 217
246	+0.81676 000	+0.57697 756	296	+0.63676 125	+0.77106 103
247	+0.92680 719	-0.37553 754	297	+0.99286 906	-0.11921 006
248	+0.18475 212	-0.98278 515	298	+0.43613 763	-0.89987 997
249	-0.72716 319	-0.68646 463	299	-0.52157 672	-0.85320 439
250	-0.97052 802	+0.24098 831	300	-0.99975 584	-0.02209 662

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Table 4.8

x	$\sin x$	$\cos x$	x	$\sin x$	$\cos x$
300	-0.99975 584	-0.02209 662	350	-0.95893 283	-0.28363 328
301	-0.55876 405	+0.82932 668	351	-0.75678 279	+0.65366 643
302	+0.39595 283	+0.91827 085	352	+0.14114 985	+0.98998 824
303	+0.98663 250	+0.16296 104	353	+0.90930 997	+0.41611 943
304	+0.67020 680	-0.74217 440	354	+0.84145 470	-0.54032 767
305	-0.26240 394	-0.96495 812	355	-0.00003 014	-1.00000 000
306	-0.95376 171	-0.30056 379	356	-0.84148 727	-0.54027 694
307	-0.76823 536	+0.64016 750	357	-0.90928 488	+0.41617 425
308	+0.12360 304	+0.99233 174	358	-0.14109 017	+0.98999 675
309	+0.90180 137	+0.43215 076	359	+0.75682 220	+0.65362 081
310	+0.85088 769	-0.52534 764	360	+0.95891 572	-0.28369 109
311	+0.01767 179	-0.99984 384	361	+0.27938 655	-0.96017 871
312	-0.83179 148	-0.55508 823	362	-0.65700 932	-0.75388 245
313	-0.91650 949	+0.40001 294	363	-0.98935 386	+0.14552 986
314	-0.15859 291	+0.98734 406	364	-0.41209 102	+0.91114 268
315	+0.74513 326	+0.66691 560	365	+0.54404 640	+0.83905 513
316	+0.96378 735	-0.26667 199	366	+0.99999 007	-0.00445 584
317	+0.29633 979	-0.95508 258	367	+0.53654 748	-0.84387 013
318	-0.64356 121	-0.76539 465	368	-0.42019 439	-0.90743 412
319	-0.99177 500	+0.12799 359	369	-0.99061 148	-0.13670 736
320	-0.42815 543	+0.90370 511	370	-0.65026 494	+0.75970 752
321	+0.52910 827	+0.84855 433	371	+0.28793 218	+0.95765 080
322	+0.99991 226	+0.01324 661	372	+0.96140 579	+0.27513 436
323	+0.55140 153	-0.83423 998	373	+0.75096 734	-0.66033 935
324	-0.40406 522	-0.91473 018	374	-0.14990 701	-0.98870 010
325	-0.98803 627	-0.15422 167	375	-0.91295 755	-0.40805 454
326	-0.66361 133	+0.74807 753	376	-0.83663 913	+0.54775 448
327	+0.27093 481	+0.96259 770	377	+0.00888 145	+0.99996 056
328	+0.95638 473	+0.29210 998	378	+0.84623 647	+0.53280 751
329	+0.76253 895	-0.64694 231	379	+0.90556 557	-0.42420 631
330	-0.13238 163	-0.99119 882	380	+0.13232 187	-0.99120 680
331	-0.90559 115	-0.42415 171	381	-0.76257 795	-0.64689 634
332	-0.84620 434	+0.53285 853	382	-0.95636 712	+0.29216 764
333	-0.00882 117	+0.99996 109	383	-0.27087 677	+0.96261 403
334	+0.83667 215	+0.54770 404	384	+0.66365 643	+0.74803 752
335	+0.91293 295	-0.40810 958	385	+0.98802 697	-0.15428 123
336	+0.14984 741	-0.98870 914	386	+0.40401 007	-0.91475 454
337	-0.75100 715	-0.66029 407	387	-0.55145 183	-0.83420 674
338	-0.96138 920	+0.27519 232	388	-0.99991 146	+0.01330 689
339	-0.28787 445	+0.95766 816	389	-0.52905 711	+0.84858 622
340	+0.65031 074	+0.75966 831	390	+0.42820 991	+0.90367 930
341	+0.99060 323	-0.13676 708	391	+0.99178 271	+0.12793 379
342	+0.42013 968	-0.90745 945	392	+0.64351 506	-0.76543 345
343	-0.53659 836	-0.84383 778	393	-0.29639 737	-0.95506 471
344	-0.99999 034	-0.00439 555	394	-0.96380 342	-0.26661 388
345	-0.54399 582	+0.83908 793	395	-0.74509 306	+0.66696 052
346	+0.41214 595	+0.91111 784	396	+0.15865 243	+0.98733 450
347	+0.98936 263	+0.14547 021	397	+0.91653 361	+0.39995 769
348	+0.65696 387	-0.75392 206	398	+0.83175 801	-0.55513 837
349	-0.27944 444	-0.96016 186	399	-0.01773 206	-0.99984 277
350	-0.95893 283	-0.28363 328	400	-0.85091 936	-0.52529 634

Table 4.8 CIRCULAR SINES AND COSINES FOR LARGE RADIAN ARGUMENTS

x	$\sin x$	$\cos x$	x	$\sin x$	$\cos x$
400	-0.85091 936	-0.52529 634	450	-0.68328 373	-0.73015 296
401	-0.90177 532	+0.43220 513	451	-0.98358 231	+0.18046 010
402	-0.12354 321	+0.99233 919	452	-0.37957 985	+0.92515 898
403	+0.76827 396	+0.64012 118	453	+0.57340 657	+0.81927 096
404	+0.95374 359	-0.30062 129	454	+0.99920 563	-0.03985 100
405	+0.26234 577	-0.96497 394	455	+0.50633 965	-0.86233 414
406	-0.67025 155	-0.74213 399	456	-0.45205 268	-0.89199 124
407	-0.98662 268	+0.16302 052	457	-0.99482 985	-0.10155 572
408	-0.39589 747	+0.91829 472	458	-0.62296 505	+0.78224 967
409	+0.55881 405	+0.82929 299	459	+0.32165 095	+0.94685 832
410	+0.99975 451	-0.02215 689	460	+0.97054 255	+0.24092 979
411	+0.52152 528	-0.85323 583	461	+0.72712 181	-0.68650 847
412	-0.43619 188	-0.89985 368	462	-0.18481 137	-0.98277 401
413	-0.99287 624	-0.11915 021	463	-0.92682 982	-0.37548 166
414	-0.63671 476	+0.77109 942	464	-0.81672 521	+0.57702 680
415	+0.30483 933	+0.95240 379	465	+0.04427 279	+0.99901 948
416	+0.96612 555	+0.25807 251	466	+0.86456 660	+0.50251 826
417	+0.73916 039	-0.67352 944	467	+0.88998 186	-0.45599 593
418	-0.16738 542	-0.98589 154	468	+0.09715 190	-0.99526 957
419	-0.92003 785	-0.39182 950	469	-0.78499 906	-0.61949 695
420	-0.82681 172	+0.56247 878	470	-0.94542 551	+0.32583 830
421	+0.02658 129	+0.99964 666	471	-0.23663 211	+0.97159 932
422	+0.85553 559	+0.51774 401	472	+0.68971 977	+0.72407 641
423	+0.89791 441	-0.44017 009	473	+0.98194 647	-0.18915 902
424	+0.11475 487	-0.99339 384	474	+0.37137 611	-0.92848 252
425	-0.77390 977	-0.63329 587	475	-0.58063 573	-0.81416 347
426	-0.95104 534	+0.30905 140	476	-0.99881 376	+0.04869 372
427	-0.25379 421	+0.96725 824	477	-0.49868 703	+0.86678 212
428	+0.67679 415	+0.73617 232	478	+0.45993 026	+0.88795 504
429	+0.98514 108	-0.17174 704	479	+0.99568 978	+0.09274 619
430	+0.38775 385	-0.92176 296	480	+0.61601 671	-0.78773 308
431	-0.56613 249	-0.82431 427	481	-0.33001 928	-0.94397 419
432	-0.99951 922	+0.03100 516	482	-0.97263 707	-0.23232 978
433	-0.51395 260	+0.85781 859	483	-0.72101 682	+0.69291 756
434	+0.44413 968	+0.89595 756	484	+0.19350 297	+0.98109 969
435	+0.99389 198	+0.11035 728	485	+0.93011 702	+0.36726 329
436	+0.62986 458	-0.77670 497	486	+0.81158 578	-0.58423 328
437	-0.31325 741	-0.94966 826	487	-0.05311 369	-0.99858 847
438	-0.96837 198	-0.24951 093	488	-0.86898 067	-0.49484 603
439	-0.73316 982	+0.68004 560	489	-0.88591 083	+0.46385 557
440	+0.17610 529	+0.98437 134	490	-0.08833 866	+0.99609 050
441	+0.92347 001	+0.38367 061	491	+0.79045 167	+0.61252 441
442	+0.82180 066	-0.56977 511	492	+0.94250 438	-0.33419 379
443	-0.03542 843	-0.99937 222	493	+0.22802 291	-0.97365 577
444	-0.86008 478	-0.51015 112	494	-0.69610 177	-0.71794 312
445	-0.89398 316	+0.44810 056	495	-0.98023 370	+0.19784 312
446	-0.10595 754	+0.99437 066	496	-0.36314 328	+0.93173 331
447	+0.77948 495	+0.62642 095	497	+0.58781 939	+0.80899 219
448	+0.94827 257	-0.31745 729	498	+0.99834 363	-0.05753 262
449	+0.24522 276	-0.96946 676	499	+0.49099 533	-0.87116 220
450	-0.68328 373	-0.73015 296	500	-0.46777 181	-0.88384 927

CIRCULAR SINES AND COSINES FOR LARGE RADIAN ARGUMENTS Table 4.8

x	$\sin x$	$\cos x$	x	$\sin x$	$\cos x$
500	-0.46777 181	-0.88384 927	550	-0.21948 408	-0.97561 608
501	-0.99647 170	-0.08392 940	551	-0.93954 038	-0.34243 814
502	-0.60902 011	+0.79315 478	552	-0.79578 759	+0.60557 585
503	+0.33836 176	+0.94101 611	553	+0.07960 864	+0.99682 620
504	+0.97465 539	+0.22371 157	554	+0.88181 305	+0.47159 913
505	+0.71485 535	-0.69927 236	555	+0.87328 261	-0.48721 400
506	-0.20217 940	-0.97934 850	556	+0.06186 016	-0.99808 483
507	-0.93333 135	-0.35901 615	557	-0.80643 623	-0.59132 107
508	-0.80638 275	+0.59139 399	558	-0.93329 888	+0.35910 055
509	+0.06195 042	+0.99807 923	559	-0.20209 084	+0.97936 678
510	+0.87332 667	+0.48713 502	560	+0.71491 859	+0.69920 771
511	+0.88177 040	-0.47167 887	561	+0.97463 516	-0.22379 971
512	+0.07951 849	-0.99683 339	562	+0.33827 666	-0.94104 671
513	-0.79584 235	-0.60550 389	563	-0.60909 184	-0.79309 970
514	-0.93950 941	+0.34252 310	564	-0.99646 411	+0.08401 951
515	-0.21939 585	+0.97563 593	565	-0.46769 187	+0.88389 157
516	+0.70242 924	+0.71175 358	566	+0.49107 411	+0.87111 780
517	+0.97844 413	-0.20651 172	567	+0.99834 883	+0.05744 234
518	+0.35488 199	-0.93491 110	568	+0.58774 623	-0.80904 534
519	-0.59495 701	-0.80375 753	569	-0.36322 754	-0.93170 046
520	-0.99779 528	+0.06636 701	570	-0.98025 158	-0.19775 448
521	-0.48326 517	+0.87547 403	571	-0.69603 684	+0.71800 607
522	+0.47557 670	+0.87967 426	572	+0.22811 096	+0.97363 514
523	+0.99717 555	+0.07510 603	573	+0.94253 460	+0.33410 856
524	+0.60197 580	-0.79851 433	574	+0.79039 628	-0.61259 589
525	-0.34667 773	-0.93798 430	575	-0.08842 874	-0.99608 251
526	-0.97659 735	-0.21507 583	576	-0.88595 278	-0.46377 546
527	-0.70863 787	+0.70557 237	577	-0.86893 592	+0.49492 461
528	+0.21084 000	+0.97752 059	578	-0.05302 338	+0.99859 327
529	+0.93647 255	+0.35074 088	579	+0.81163 861	+0.58415 989
530	+0.80111 655	-0.59850 837	580	+0.93008 380	-0.36734 740
531	-0.07078 230	-0.99749 179	581	+0.19341 424	-0.98111 719
532	-0.87760 424	-0.47938 586	582	-0.72107 948	-0.69285 235
533	-0.87756 088	+0.47946 522	583	-0.97261 606	+0.23241 774
534	-0.07069 210	+0.99749 818	584	-0.32993 391	+0.94400 403
535	+0.80117 068	+0.59843 592	585	+0.61608 795	+0.78767 737
536	+0.93644 083	-0.35082 557	586	+0.99568 139	-0.09283 623
537	+0.21075 160	-0.97753 965	587	+0.45984 996	-0.88799 663
538	-0.70870 168	-0.70550 828	588	-0.49876 541	-0.86673 702
539	-0.97657 790	+0.21516 415	589	-0.99881 816	-0.04860 339
540	-0.34659 290	+0.93801 565	590	-0.58056 210	+0.81421 597
541	+0.60204 801	+0.79845 989	591	+0.37146 008	+0.92844 893
542	+0.99716 876	-0.07519 621	592	+0.98196 357	+0.18907 022
543	+0.47549 715	-0.87971 726	593	+0.68965 428	-0.72413 878
544	-0.48334 434	-0.87543 032	594	-0.23671 997	-0.97157 792
545	-0.99780 128	-0.06627 678	595	-0.94545 497	-0.32575 281
546	-0.59488 432	+0.80381 133	596	-0.78494 304	+0.61956 794
547	+0.35496 654	+0.93487 901	597	+0.09724 191	+0.99526 078
548	+0.97846 280	+0.20642 324	598	+0.89002 309	+0.45591 545
549	+0.70236 487	-0.71181 710	599	+0.86452 115	-0.50259 644
550	-0.21948 408	-0.97561 608	600	+0.04418 245	-0.99902 348

Table 4.8 CIRCULAR SINES AND COSINES FOR LARGE RADIAN ARGUMENTS

x	$\sin x$	$\cos x$	x	$\sin x$	$\cos x$
600	+0.04418 245	-0.99902 348	650	+0.30475 320	-0.95243 136
601	-0.81677 739	-0.57695 294	651	-0.63678 449	-0.77104 183
602	-0.92679 586	+0.37556 547	652	-0.99286 546	+0.11923 999
603	-0.18472 249	+0.98279 072	653	-0.43611 050	+0.89989 312
604	+0.72718 389	+0.68644 271	654	+0.52160 244	+0.85318 866
605	+0.97052 075	-0.24101 756	655	+0.99975 651	+0.02206 648
606	+0.32156 532	-0.94688 740	656	+0.55873 905	-0.82934 352
607	-0.62303 579	-0.78219 333	657	-0.39598 051	-0.91825 891
608	-0.99482 067	+0.10164 568	658	-0.98663 742	-0.16293 130
609	-0.45197 201	+0.89203 212	659	-0.67018 443	+0.74219 460
610	+0.50641 763	+0.86228 834	660	+0.26243 303	+0.96495 021
611	+0.99920 923	+0.03976 064	661	+0.95377 077	+0.30053 504
612	+0.57333 248	-0.81932 281	662	+0.76821 607	-0.64019 066
613	-0.37966 351	-0.92512 465	663	-0.12363 295	-0.99232 802
614	-0.98359 862	-0.18037 115	664	-0.90181 440	-0.43212 358
615	-0.68321 769	+0.73021 475	665	-0.85087 185	+0.52537 329
616	+0.24531 043	+0.96944 458	666	-0.01764 165	+0.99984 437
617	+0.94830 128	+0.31737 153	667	+0.83180 821	+0.55506 315
618	+0.77942 830	-0.62649 144	668	+0.91649 743	-0.40004 057
619	-0.10604 746	-0.99436 107	669	+0.15856 314	-0.98734 884
620	-0.89402 368	-0.44801 972	670	-0.74515 337	-0.66689 314
621	-0.86003 865	+0.51022 890	671	-0.96377 931	+0.26670 104
622	-0.03533 805	+0.99937 542	672	-0.29631 100	+0.95509 151
623	+0.82185 218	+0.56970 079	673	+0.64358 428	+0.76537 525
624	+0.92343 531	-0.38375 412	674	+0.99177 114	-0.12802 348
625	+0.17601 627	-0.98438 726	675	+0.42812 819	-0.90371 802
626	-0.73323 132	-0.67997 929	676	-0.52913 384	-0.84853 838
627	-0.96834 941	+0.24959 850	677	-0.99991 266	-0.01321 646
628	-0.31317 153	+0.94969 658	678	-0.55137 639	+0.83425 660
629	+0.62993 482	+0.77664 801	679	+0.40409 279	+0.91471 800
630	+0.99388 200	-0.11044 716	680	+0.98804 092	+0.15419 188
631	+0.44405 865	-0.89599 772	681	+0.66358 878	-0.74809 754
632	-0.51403 017	-0.85777 210	682	-0.27096 382	-0.96258 953
633	-0.99952 202	-0.03091 477	683	-0.95639 354	-0.29208 115
634	-0.56605 794	+0.82436 546	684	-0.76251 945	+0.64696 529
635	+0.38783 721	+0.92172 789	685	+0.13241 151	+0.99119 483
636	+0.98515 661	+0.17165 795	686	+0.90560 393	+0.42412 441
637	+0.67672 757	-0.73623 352	687	+0.84618 828	-0.53288 404
638	-0.25388 168	-0.96723 528	688	+0.00879 102	-0.99996 136
639	-0.95107 328	-0.30896 539	689	-0.83668 866	-0.54767 882
640	-0.77385 250	+0.63336 586	690	-0.91292 065	+0.40813 710
641	+0.11484 470	+0.99338 346	691	-0.14981 760	+0.98871 365
642	+0.89795 421	+0.44008 889	692	+0.75102 706	+0.66027 143
643	+0.85548 876	-0.51782 138	693	+0.96138 090	-0.27522 130
644	+0.02649 089	-0.99964 905	694	+0.28784 558	-0.95767 684
645	-0.82686 259	-0.56240 400	695	-0.65033 364	-0.75964 871
646	-0.92000 241	+0.39191 270	696	-0.99059 911	+0.13679 694
647	-0.16729 626	+0.98590 667	697	-0.42011 233	+0.90747 211
648	+0.73922 130	+0.67346 260	698	+0.53662 379	+0.84382 161
649	+0.96610 221	-0.25815 988	699	+0.99999 047	+0.00476 541
650	+0.30475 320	-0.95243 136	700	+0.54397 052	-0.83910 433

CIRCULAR SINES AND COSINES FOR LARGE RADIAN ARGUMENTS Table 4.8

x	$\sin x$	$\cos x$	x	$\sin x$	$\cos x$
700	+0.54397 052	-0.83910 433	750	+0.74507 295	-0.66698 298
701	-0.41217 342	-0.91110 541	751	-0.15868 219	-0.98732 971
702	-0.98936 702	-0.14544 039	752	-0.91654 566	-0.39993 006
703	-0.65694 115	+0.75394 186	753	-0.83174 127	+0.55516 345
704	+0.27947 339	+0.96015 344	754	+0.01776 220	+0.99984 224
705	+0.95894 137	+0.28360 437	755	+0.85093 519	+0.52527 069
706	+0.75676 309	-0.65368 925	756	+0.90176 229	-0.43223 231
707	-0.14117 969	-0.98998 399	757	+0.12351 330	-0.99234 292
708	-0.90932 251	-0.41609 202	758	-0.76829 325	-0.64009 802
709	-0.84143 841	+0.54035 304	759	-0.95373 453	+0.30065 004
710	+0.00006 029	+1.00000 000	760	-0.26231 668	+0.96498 184
711	+0.84150 356	+0.54025 157	761	+0.67027 392	+0.74211 379
712	+0.90927 234	-0.41620 166	762	+0.98661 776	-0.16305 026
713	+0.14106 032	-0.99000 100	763	+0.39586 979	-0.91830 665
714	-0.75684 190	-0.65359 799	764	-0.55883 905	-0.82927 614
715	-0.95890 717	+0.28372 000	765	-0.99975 384	+0.02218 703
716	-0.27935 761	+0.96018 713	766	-0.52149 956	+0.85325 155
717	+0.65703 205	+0.75386 264	767	+0.43621 901	+0.89984 053
718	+0.98934 947	-0.14555 968	768	+0.99287 983	+0.11912 028
719	+0.41206 355	-0.91115 511	769	+0.63669 152	-0.77111 861
720	-0.54407 170	-0.83903 873	770	-0.30486 804	-0.95239 460
721	-0.99998 994	+0.00448 599	771	-0.96613 333	-0.25804 339
722	-0.53652 204	+0.84388 631	772	-0.73914 009	+0.67355 173
723	+0.42022 174	+0.90742 145	773	+0.16741 514	+0.98588 649
724	+0.99061 560	+0.13667 750	774	+0.92004 966	+0.39180 176
725	+0.65024 204	-0.75972 712	775	+0.82679 477	-0.56250 370
726	-0.28796 105	-0.95764 212	776	-0.02661 142	-0.99964 585
727	-0.96141 408	-0.27510 538	777	-0.85555 119	-0.51771 822
728	-0.75094 744	+0.66036 198	778	-0.89790 114	+0.44019 716
729	+0.14993 682	+0.98869 558	779	-0.11472 492	+0.99339 730
730	+0.91296 985	+0.40802 702	780	+0.77392 886	+0.63327 255
731	+0.83662 262	-0.54777 970	781	+0.95103 602	-0.30908 007
732	-0.00891 160	-0.99996 029	782	+0.25376 505	-0.96726 589
733	-0.84625 253	-0.53278 200	783	-0.67681 634	-0.73615 192
734	-0.90555 279	+0.42423 360	784	-0.98513 591	+0.17177 673
735	-0.13229 199	+0.99121 079	785	-0.38772 606	+0.92177 465
736	+0.76259 745	+0.64687 335	786	+0.56615 733	+0.82429 720
737	+0.95635 831	-0.29219 647	787	+0.99951 829	-0.03103 529
738	+0.27084 775	-0.96262 220	788	+0.51392 674	-0.85783 408
739	-0.66367 898	-0.74801 752	789	-0.44416 668	-0.89594 417
740	-0.98802 232	+0.15431 102	790	-0.99389 531	-0.11032 732
741	-0.40398 250	+0.91476 672	791	-0.62984 117	+0.77672 396
742	+0.55147 697	+0.83419 011	792	+0.31328 604	+0.94965 881
743	+0.99991 106	-0.01333 703	793	+0.96837 950	+0.24948 174
744	+0.52903 153	-0.84860 217	794	+0.73314 932	-0.68006 770
745	-0.42823 715	-0.90366 639	795	-0.17613 497	-0.98436 603
746	-0.99178 657	-0.12790 390	796	-0.92348 158	-0.38364 277
747	-0.64349 199	+0.76545 285	797	-0.82178 349	+0.56979 988
748	+0.29642 616	+0.95505 577	798	+0.03545 855	+0.99937 115
749	+0.96381 146	+0.26658 483	799	+0.86010 016	+0.51012 519
750	+0.74507 295	-0.66698 298	800	+0.89396 965	-0.44812 751

Table 4.8 CIRCULAR SINES AND COSINES FOR LARGE RADIAN ARGUMENTS

x	$\sin x$	$\cos x$	x	$\sin x$	$\cos x$
800	+0.89396 965	-0.44812 751	850	+0.98022 773	-0.19787 267
801	+0.10592 756	-0.99437 385	851	+0.36311 519	-0.93174 426
802	-0.77950 384	-0.62639 745	852	-0.58784 378	-0.80897 447
803	-0.94826 300	+0.31748 587	853	-0.99834 189	+0.05756 271
804	-0.24519 354	+0.96947 415	854	-0.49096 907	+0.87117 700
805	+0.68330 573	+0.73013 237	855	+0.46779 845	+0.88383 517
806	+0.98357 687	-0.18048 975	856	+0.99647 423	+0.08389 936
807	+0.37955 196	-0.92517 042	857	+0.60899 620	-0.79317 314
808	-0.57343 126	-0.81925 368	858	-0.33839 013	-0.94100 591
809	-0.99920 443	+0.03988 112	859	-0.97466 214	-0.22368 219
810	-0.50631 365	+0.86234 940	860	-0.71483 427	+0.69929 390
811	+0.45207 956	+0.89197 762	861	+0.20220 893	+0.97934 241
812	+0.99483 291	+0.10152 573	862	+0.93334 217	+0.35898 802
813	+0.62294 147	-0.78226 845	863	+0.80636 493	-0.59141 830
814	-0.32167 949	-0.94684 862	864	-0.06198 051	-0.99807 736
815	-0.97054 981	-0.24090 054	865	-0.87334 135	-0.48710 870
816	-0.72710 111	+0.68653 039	866	-0.88175 618	+0.47170 545
817	+0.18484 099	+0.98276 844	867	-0.07948 845	+0.99683 579
818	+0.92684 114	+0.37545 372	868	+0.79586 060	+0.60547 989
819	+0.81670 782	-0.57705 142	869	+0.93949 908	-0.34255 142
820	-0.04430 291	-0.99901 814	870	+0.21936 644	-0.97564 254
821	-0.86458 174	-0.50249 220	871	-0.70245 070	-0.71173 241
822	-0.88996 811	+0.45602 276	872	-0.97843 790	+0.20654 122
823	-0.09712 190	+0.99527 249	873	-0.35485 381	+0.93492 180
824	+0.78501 774	+0.61947 329	874	+0.59498 124	+0.80373 959
825	+0.94541 569	-0.32586 680	875	+0.99779 328	-0.06639 709
826	+0.23660 282	-0.97160 646	876	+0.48323 878	-0.87548 859
827	-0.68974 159	-0.72405 561	877	-0.47560 322	-0.87965 992
828	-0.98194 076	+0.18918 862	878	-0.99717 782	-0.07507 597
829	-0.37134 812	+0.92849 371	879	-0.60195 173	+0.79853 248
830	+0.58066 027	+0.81414 596	880	+0.34670 601	+0.93797 385
831	+0.99881 229	-0.04872 383	881	+0.97660 383	+0.21504 639
832	+0.49866 090	-0.86679 716	882	+0.70861 660	-0.70559 373
833	-0.45995 702	-0.88794 118	883	-0.21086 947	-0.97751 423
834	-0.99569 258	-0.09271 618	884	-0.93648 312	-0.35071 265
835	-0.61599 297	+0.78775 165	885	-0.80109 851	+0.59853 252
836	+0.33004 774	+0.94396 424	886	+0.07081 237	+0.99748 965
837	+0.97264 407	+0.23230 046	887	+0.87761 869	+0.47935 940
838	+0.72099 594	-0.69293 929	888	+0.87754 643	-0.47949 167
839	-0.19353 254	-0.98109 386	889	+0.07066 203	-0.99750 031
840	-0.93012 809	-0.36723 525	890	-0.80118 871	-0.59841 177
841	-0.81156 816	+0.58425 775	891	-0.93643 025	+0.35085 380
842	-0.05314 379	+0.99858 687	892	-0.21072 213	+0.97754 600
843	+0.86899 559	+0.49481 983	893	+0.70872 294	+0.70548 692
844	+0.88589 685	-0.46388 228	894	+0.97657 141	-0.21519 358
845	+0.08830 863	-0.99609 316	895	+0.34656 463	-0.93802 610
846	-0.79047 014	-0.61250 058	896	-0.60207 208	-0.79844 174
847	-0.94249 431	+0.33422 221	897	-0.99716 649	-0.07522 627
848	-0.22799 356	+0.97366 264	898	-0.47547 063	+0.87973 159
849	+0.69612 342	+0.71792 213	899	+0.48337 073	+0.87541 575
850	+0.98022 773	-0.19787 267	900	+0.99780 327	+0.06624 670

CIRCULAR SINES AND COSINES FOR LARGE RADIAN ARGUMENTS Table 4.8

x	$\sin x$	$\cos x$	x	$\sin x$	$\cos x$
900	+0.99780 327	+0.06624 670	950	+0.94546 479	+0.32572 431
901	+0.59486 009	-0.80382 926	951	+0.78492 436	-0.61959 160
902	-0.35499 472	-0.93486 831	952	-0.09727 191	-0.99525 784
903	-0.97846 902	-0.20639 374	953	-0.89003 684	-0.45588 862
904	-0.70234 341	+0.71183 827	954	-0.86450 600	+0.50262 250
905	+0.21951 349	+0.97560 947	955	-0.04415 233	+0.99902 481
906	+0.93955 070	+0.34240 981	956	+0.81679 478	+0.57692 832
907	+0.79576 933	-0.60559 984	957	+0.92678 454	-0.37559 341
908	-0.07963 869	-0.99682 380	958	+0.18469 287	-0.98279 629
909	-0.88182 727	-0.47157 255	959	-0.72720 458	-0.68642 079
910	-0.87326 792	+0.48724 032	960	-0.97051 349	+0.24104 682
911	-0.06183 008	+0.99808 669	961	-0.32153 677	+0.94689 709
912	+0.80645 406	+0.59129 676	962	+0.62305 937	+0.78217 455
913	+0.93328 805	-0.35912 869	963	+0.99481 760	-0.10167 567
914	+0.20206 131	-0.97937 287	964	+0.45194 512	-0.89204 574
915	-0.71493 966	-0.69918 616	965	-0.50644 362	-0.86227 308
916	-0.97462 841	+0.22382 909	966	-0.99921 043	-0.03973 052
917	-0.33824 829	+0.94105 690	967	-0.57330 778	+0.81934 009
918	+0.60911 575	+0.79308 134	968	+0.37969 140	+0.92511 320
919	+0.99646 158	-0.08404 955	969	+0.98360 406	+0.18034 150
920	+0.46766 523	-0.88390 567	970	+0.68319 568	-0.73023 535
921	-0.49110 037	-0.87110 299	971	-0.24533 966	-0.96943 718
922	-0.99835 056	-0.05741 224	972	-0.94831 084	-0.31734 294
923	-0.58772 184	+0.80906 306	973	-0.77940 942	+0.62651 493
924	+0.36325 562	+0.93168 952	974	+0.10607 744	+0.99435 787
925	+0.98025 754	+0.19772 493	975	+0.89403 718	+0.44799 277
926	+0.69601 520	-0.71802 705	976	+0.86002 327	-0.51025 482
927	-0.22814 031	-0.97362 827	977	+0.03530 793	-0.99937 648
928	-0.94254 467	-0.33408 015	978	-0.82186 936	-0.56967 601
929	-0.79037 781	+0.61261 972	979	-0.92342 374	+0.38378 195
930	+0.08845 877	+0.99607 984	980	-0.17598 660	+0.98439 256
931	+0.88596 676	+0.46374 875	981	+0.73325 181	+0.67995 719
932	+0.86892 100	-0.49495 080	982	+0.96834 189	-0.24962 769
933	+0.05299 328	-0.99859 487	983	+0.31314 290	-0.94970 602
934	-0.81165 622	-0.58413 542	984	-0.62995 823	-0.77662 902
935	-0.93007 273	+0.36737 544	985	-0.99387 867	+0.11047 712
936	-0.19338 467	+0.98112 302	986	-0.44403 164	+0.89601 111
937	+0.72110 037	+0.69283 061	987	+0.51405 603	+0.85775 661
938	+0.97260 905	-0.23244 706	988	+0.99952 296	+0.03088 464
939	+0.32990 546	-0.94401 398	989	+0.56603 309	-0.82438 252
940	-0.61611 169	-0.78765 880	990	-0.38786 499	-0.92171 620
941	-0.99567 859	+0.09286 625	991	-0.98516 179	-0.17162 825
942	-0.45982 319	+0.88801 049	992	-0.67670 538	+0.73625 392
943	+0.49879 154	+0.86672 199	993	+0.25391 083	+0.96722 763
944	+0.99881 962	+0.04857 328	994	+0.95108 260	+0.30893 672
945	+0.58053 755	-0.81423 347	995	+0.77383 341	-0.63338 919
946	-0.37148 806	-0.92843 773	996	-0.11487 465	-0.99338 000
947	-0.98196 927	-0.18904 062	997	-0.89796 748	-0.44006 182
948	-0.68963 246	+0.72415 957	998	-0.85547 315	+0.51784 716
949	+0.23674 926	+0.97157 078	999	-0.02646 075	+0.99964 985
950	+0.94546 479	+0.32572 431	1000	+0.82687 954	+0.56237 908

For $x > 1000$ see Example 16.