

	Rectangle		Trapezoidal		Simpson	
N	Value	Error	Value	Error	Value	Error
10	1.0764828	-7.648E-02	0.99794299	2.057E-03	1.00000339	-3.392E-06
100	1.00783342	-7.833E-03	1.12033797	-1.203E-01	1	-3.382E-10
1000	1.00078519	-7.852E-04	0.99999979	2.056E-07	1	-3.308E-14

N	10		100		1000	
n	X [0,pi/2]	cos(X)	X [0,pi/2]	cos(X)	X [0,pi/2]	cos(X)
0	0	1	0	1	0	1
1	0.15707963	0.98768834	0.01570796	0.99987663	0.0015708	0.99999877
2	0.31415927	0.95105652	0.03141593	0.99950656	0.00314159	0.99999507
3	0.4712389	0.89100652	0.04712389	0.99888987	0.00471239	0.9999889
4	0.62831853	0.80901699	0.06283185	0.99802673	0.00628319	0.99998026
5	0.78539816	0.70710678	0.07853982	0.99691733	0.00785398	0.99996916
6	0.9424778	0.58778525	0.09424778	0.99556196	0.00942478	0.99995559
7	1.09955743	0.4539905	0.10995574	0.99396096	0.01099557	0.99993955
8	1.25663706	0.30901699	0.12566371	0.9921147	0.01256637	0.99992104
9	1.41371669	0.15643447	0.14137167	0.99002366	0.01413717	0.99990007
10	1.57079633	6.1257E-17	0.15707963	0.98768834	0.01570796	0.99987663
11			0.1727876	0.98510933	0.01727876	0.99985073
12	Rectangle	1.0764828	0.18849556	0.98228725	0.01884956	0.99982235
13	Trapezoidal	0.99794299	0.20420352	0.97922281	0.02042035	0.99979151
14	Simpson	1.00000339	0.21991149	0.97591676	0.02199115	0.9997582
15			0.23561945	0.97236992	0.02356194	0.99972243
16			0.25132741	0.96858316	0.02513274	0.99968419
17			0.26703538	0.96455742	0.02670354	0.99964348
18			0.28274334	0.96029369	0.02827433	0.99960031
19			0.2984513	0.95579301	0.02984513	0.99955467
20			0.31415927	0.95105652	0.03141593	0.99950656
21			0.32986723	0.94608536	0.03298672	0.99945599
22			0.34557519	0.94088077	0.03455752	0.99940295
23			0.36128316	0.93544403	0.03612832	0.99934744
24			0.37699112	0.92977649	0.03769911	0.99928947
25			0.39269908	0.92387953	0.03926991	0.99922904
26			0.40840704	0.91775463	0.0408407	0.99916613
27			0.42411501	0.91140328	0.0424115	0.99910077
28			0.43982297	0.90482705	0.0439823	0.99903293
29			0.45553093	0.89802758	0.04555309	0.99896264
30			0.4712389	0.89100652	0.04712389	0.99888987
31			0.48694686	0.88376563	0.04869469	0.99881465
32			0.50265482	0.87630668	0.05026548	0.99873696
33			0.51836279	0.86863151	0.05183628	0.9986568
34			0.53407075	0.86074203	0.05340708	0.99857418
35			0.54977871	0.85264016	0.05497787	0.9984891
36			0.56548668	0.84432793	0.05654867	0.99840155
37			0.58119464	0.83580736	0.05811946	0.99831154
38			0.5969026	0.82708057	0.05969026	0.99821907
39			0.61261057	0.81814972	0.06126106	0.99812413
40			0.62831853	0.80901699	0.06283185	0.99802673
41			0.64402649	0.79968466	0.06440265	0.99792687
42			0.65973446	0.79015501	0.06597345	0.99782454
43			0.67544242	0.78043041	0.06754424	0.99771975
44			0.69115038	0.77051324	0.06911504	0.99761251
45			0.70685835	0.76040597	0.07068583	0.9975028
46			0.72256631	0.75011107	0.07225663	0.99739063
47			0.73827427	0.73963109	0.07382743	0.99727599
48			0.75398224	0.72896863	0.07539822	0.9971589
49			0.7696902	0.7181263	0.07696902	0.99703935

50	0.78539816	0.70710678	0.07853982	0.99691733
51	0.80110613	0.6959128	0.08011061	0.99679286
52	0.81681409	0.68454711	0.08168141	0.99666593
53	0.83252205	0.67301251	0.08325221	0.99653654
54	0.84823002	0.66131187	0.084823	0.99640469
55	0.86393798	0.64944805	0.0863938	0.99627038
56	0.87964594	0.63742399	0.08796459	0.99613361
57	0.89535391	0.62524266	0.08953539	0.99599438
58	0.91106187	0.61290705	0.09110619	0.9958527
59	0.92676983	0.60042023	0.09267698	0.99570856
60	0.9424778	0.58778525	0.09424778	0.99556196
61	0.95818576	0.57500525	0.09581858	0.99541291
62	0.97389372	0.56208338	0.09738937	0.9952614
63	0.98960169	0.54902282	0.09896017	0.99510744
64	1.00530965	0.53582679	0.10053096	0.99495102
65	1.02101761	0.52249856	0.10210176	0.99479214
66	1.03672558	0.50904142	0.10367256	0.99463081
67	1.05243354	0.49545867	0.10524335	0.99446703
68	1.0681415	0.48175367	0.10681415	0.99430079
69	1.08384947	0.46792981	0.10838495	0.9941321
70	1.09955743	0.4539905	0.10995574	0.99396096
71	1.11526539	0.43993917	0.11152654	0.99378736
72	1.13097336	0.42577929	0.11309734	0.99361131
73	1.14668132	0.41151436	0.11466813	0.99343281
74	1.16238928	0.39714789	0.11623893	0.99325186
75	1.17809725	0.38268343	0.11780972	0.99306846
76	1.19380521	0.36812455	0.11938052	0.9928826
77	1.20951317	0.35347484	0.12095132	0.9926943
78	1.22522113	0.33873792	0.12252211	0.99250355
79	1.2409291	0.32391742	0.12409291	0.99231035
80	1.25663706	0.30901699	0.12566371	0.9921147
81	1.27234502	0.29404033	0.1272345	0.9919166
82	1.28805299	0.27899111	0.1288053	0.99171606
83	1.30376095	0.26387305	0.1303761	0.99151307
84	1.31946891	0.24868989	0.13194689	0.99130763
85	1.33517688	0.23344536	0.13351769	0.99109975
86	1.35088484	0.21814324	0.13508848	0.99088942
87	1.3665928	0.2027873	0.13665928	0.99067664
88	1.38230077	0.18738131	0.13823008	0.99046143
89	1.39800873	0.1719291	0.13980087	0.99024376
90	1.41371669	0.15643447	0.14137167	0.99002366
91	1.42942466	0.14090123	0.14294247	0.98980111
92	1.44513262	0.12533323	0.14451326	0.98957612
93	1.46084058	0.10973431	0.14608406	0.98934869
94	1.47654855	0.09410831	0.14765485	0.98911881
95	1.49225651	0.0784591	0.14922565	0.9888865
96	1.50796447	0.06279052	0.15079645	0.98865174
97	1.52367244	0.04710645	0.15236724	0.98841455
98	1.5393804	0.03141076	0.15393804	0.98817492
99	1.55508836	0.01570732	0.15550884	0.98793285
100	1.57079633	-1.608E-16	0.15707963	0.98768834
101			0.15865043	0.9874414
102	Rectangle	1.00783342	0.16022123	0.98719201
103	Trapezoidal	1.12033797	0.16179202	0.9869402
104	Simpson	1	0.16336282	0.98668594
105			0.16493361	0.98642926
106			0.16650441	0.98617014
107			0.16807521	0.98590858
108			0.169646	0.9856446

109	0.1712168	0.98537818
110	0.1727876	0.98510933
111	0.17435839	0.98483805
112	0.17592919	0.98456433
113	0.17749998	0.98428819
114	0.17907078	0.98400963
115	0.18064158	0.98372863
116	0.18221237	0.9834452
117	0.18378317	0.98315935
118	0.18535397	0.98287108
119	0.18692476	0.98258038
120	0.18849556	0.98228725
121	0.19006636	0.9819917
122	0.19163715	0.98169373
123	0.19320795	0.98139333
124	0.19477874	0.98109052
125	0.19634954	0.98078528
126	0.19792034	0.98047762
127	0.19949113	0.98016755
128	0.20106193	0.97985505
129	0.20263273	0.97954014
130	0.20420352	0.97922281
131	0.20577432	0.97890307
132	0.20734512	0.9785809
133	0.20891591	0.97825633
134	0.21048671	0.97792934
135	0.2120575	0.97759994
136	0.2136283	0.97726812
137	0.2151991	0.9769339
138	0.21676989	0.97659726
139	0.21834069	0.97625822
140	0.21991149	0.97591676
141	0.22148228	0.9755729
142	0.22305308	0.97522663
143	0.22462387	0.97487795
144	0.22619467	0.97452687
145	0.22776547	0.97417339
146	0.22933626	0.9738175
147	0.23090706	0.97345921
148	0.23247786	0.97309851
149	0.23404865	0.97273542
150	0.23561945	0.97236992
151	0.23719025	0.97200203
152	0.23876104	0.97163173
153	0.24033184	0.97125904
154	0.24190263	0.97088396
155	0.24347343	0.97050647
156	0.24504423	0.9701266
157	0.24661502	0.96974433
158	0.24818582	0.96935966
159	0.24975662	0.96897261
160	0.25132741	0.96858316
161	0.25289821	0.96819133
162	0.254469	0.9677971
163	0.2560398	0.96740049
164	0.2576106	0.96700149
165	0.25918139	0.9666001
166	0.26075219	0.96619633
167	0.26232299	0.96579018

168	0.26389378	0.96538164
169	0.26546458	0.96497072
170	0.26703538	0.96455742
171	0.26860617	0.96414174
172	0.27017697	0.96372368
173	0.27174776	0.96330324
174	0.27331856	0.96288043
175	0.27488936	0.96245524
176	0.27646015	0.96202767
177	0.27803095	0.96159773
178	0.27960175	0.96116542
179	0.28117254	0.96073074
180	0.28274334	0.96029369
181	0.28431414	0.95985426
182	0.28588493	0.95941247
183	0.28745573	0.95896831
184	0.28902652	0.95852179
185	0.29059732	0.9580729
186	0.29216812	0.95762165
187	0.29373891	0.95716803
188	0.29530971	0.95671205
189	0.29688051	0.95625371
190	0.2984513	0.95579301
191	0.3000221	0.95532996
192	0.30159289	0.95486454
193	0.30316369	0.95439678
194	0.30473449	0.95392665
195	0.30630528	0.95345417
196	0.30787608	0.95297934
197	0.30944688	0.95250216
198	0.31101767	0.95202263
199	0.31258847	0.95154075
200	0.31415927	0.95105652
201	0.31573006	0.95056994
202	0.31730086	0.95008102
203	0.31887165	0.94958975
204	0.32044245	0.94909614
205	0.32201325	0.94860019
206	0.32358404	0.9481019
207	0.32515484	0.94760127
208	0.32672564	0.9470983
209	0.32829643	0.946593
210	0.32986723	0.94608536
211	0.33143802	0.94557538
212	0.33300882	0.94506308
213	0.33457962	0.94454843
214	0.33615041	0.94403146
215	0.33772121	0.94351216
216	0.33929201	0.94299054
217	0.3408628	0.94246658
218	0.3424336	0.9419403
219	0.3440044	0.9414117
220	0.34557519	0.94088077
221	0.34714599	0.94034752
222	0.34871678	0.93981195
223	0.35028758	0.93927406
224	0.35185838	0.93873386
225	0.35342917	0.93819134
226	0.35499997	0.9376465

227	0.35657077	0.93709935
228	0.35814156	0.93654989
229	0.35971236	0.93599811
230	0.36128316	0.93544403
231	0.36285395	0.93488764
232	0.36442475	0.93432894
233	0.36599554	0.93376794
234	0.36756634	0.93320463
235	0.36913714	0.93263902
236	0.37070793	0.93207111
237	0.37227873	0.9315009
238	0.37384953	0.93092839
239	0.37542032	0.93035359
240	0.37699112	0.92977649
241	0.37856191	0.92919709
242	0.38013271	0.9286154
243	0.38170351	0.92803142
244	0.3832743	0.92744515
245	0.3848451	0.9268566
246	0.3864159	0.92626575
247	0.38798669	0.92567262
248	0.38955749	0.92507721
249	0.39112829	0.92447951
250	0.39269908	0.92387953
251	0.39426988	0.92327728
252	0.39584067	0.92267274
253	0.39741147	0.92206593
254	0.39898227	0.92145684
255	0.40055306	0.92084548
256	0.40212386	0.92023185
257	0.40369466	0.91961594
258	0.40526545	0.91899777
259	0.40683625	0.91837733
260	0.40840704	0.91775463
261	0.40997784	0.91712966
262	0.41154864	0.91650242
263	0.41311943	0.91587293
264	0.41469023	0.91524117
265	0.41626103	0.91460716
266	0.41783182	0.91397089
267	0.41940262	0.91333237
268	0.42097342	0.91269159
269	0.42254421	0.91204856
270	0.42411501	0.91140328
271	0.4256858	0.91075575
272	0.4272566	0.91010597
273	0.4288274	0.90945395
274	0.43039819	0.90879968
275	0.43196899	0.90814317
276	0.43353979	0.90748442
277	0.43511058	0.90682344
278	0.43668138	0.90616021
279	0.43825218	0.90549475
280	0.43982297	0.90482705
281	0.44139377	0.90415712
282	0.44296456	0.90348496
283	0.44453536	0.90281058
284	0.44610616	0.90213396
285	0.44767695	0.90145512

286	0.44924775	0.90077405
287	0.45081855	0.90009076
288	0.45238934	0.89940525
289	0.45396014	0.89871752
290	0.45553093	0.89802758
291	0.45710173	0.89733541
292	0.45867253	0.89664104
293	0.46024332	0.89594445
294	0.46181412	0.89524565
295	0.46338492	0.89454464
296	0.46495571	0.89384142
297	0.46652651	0.893136
298	0.46809731	0.89242838
299	0.4696681	0.89171855
300	0.4712389	0.89100652
301	0.47280969	0.8902923
302	0.47438049	0.88957588
303	0.47595129	0.88885726
304	0.47752208	0.88813645
305	0.47909288	0.88741345
306	0.48066368	0.88668826
307	0.48223447	0.88596088
308	0.48380527	0.88523131
309	0.48537606	0.88449956
310	0.48694686	0.88376563
311	0.48851766	0.88302952
312	0.49008845	0.88229123
313	0.49165925	0.88155076
314	0.49323005	0.88080811
315	0.49480084	0.8800633
316	0.49637164	0.87931631
317	0.49794244	0.87856715
318	0.49951323	0.87781583
319	0.50108403	0.87706234
320	0.50265482	0.87630668
321	0.50422562	0.87554886
322	0.50579642	0.87478888
323	0.50736721	0.87402675
324	0.50893801	0.87326245
325	0.51050881	0.87249601
326	0.5120796	0.87172741
327	0.5136504	0.87095666
328	0.5152212	0.87018375
329	0.51679199	0.86940871
330	0.51836279	0.86863151
331	0.51993358	0.86785218
332	0.52150438	0.8670707
333	0.52307518	0.86628708
334	0.52464597	0.86550133
335	0.52621677	0.86471344
336	0.52778757	0.86392342
337	0.52935836	0.86313126
338	0.53092916	0.86233698
339	0.53249995	0.86154057
340	0.53407075	0.86074203
341	0.53564155	0.85994137
342	0.53721234	0.85913858
343	0.53878314	0.85833368
344	0.54035394	0.85752666

345	0.54192473	0.85671752
346	0.54349553	0.85590627
347	0.54506633	0.8550929
348	0.54663712	0.85427743
349	0.54820792	0.85345985
350	0.54977871	0.85264016
351	0.55134951	0.85181837
352	0.55292031	0.85099448
353	0.5544911	0.85016849
354	0.5560619	0.8493404
355	0.5576327	0.84851021
356	0.55920349	0.84767794
357	0.56077429	0.84684357
358	0.56234508	0.84600711
359	0.56391588	0.84516856
360	0.56548668	0.84432793
361	0.56705747	0.84348521
362	0.56862827	0.84264041
363	0.57019907	0.84179354
364	0.57176986	0.84094458
365	0.57334066	0.84009355
366	0.57491146	0.83924045
367	0.57648225	0.83838528
368	0.57805305	0.83752804
369	0.57962384	0.83666873
370	0.58119464	0.83580736
371	0.58276544	0.83494393
372	0.58433623	0.83407843
373	0.58590703	0.83321088
374	0.58747783	0.83234127
375	0.58904862	0.83146961
376	0.59061942	0.8305959
377	0.59219022	0.82972014
378	0.59376101	0.82884233
379	0.59533181	0.82796247
380	0.5969026	0.82708057
381	0.5984734	0.82619664
382	0.6000442	0.82531066
383	0.60161499	0.82442265
384	0.60318579	0.8235326
385	0.60475659	0.82264052
386	0.60632738	0.82174641
387	0.60789818	0.82085027
388	0.60946897	0.81995211
389	0.61103977	0.81905192
390	0.61261057	0.81814972
391	0.61418136	0.81724549
392	0.61575216	0.81633925
393	0.61732296	0.81543099
394	0.61889375	0.81452073
395	0.62046455	0.81360845
396	0.62203535	0.81269416
397	0.62360614	0.81177787
398	0.62517694	0.81085958
399	0.62674773	0.80993929
400	0.62831853	0.80901699
401	0.62988933	0.80809271
402	0.63146012	0.80716642
403	0.63303092	0.80623815

404	0.63460172	0.80530789
405	0.63617251	0.80437564
406	0.63774331	0.8034414
407	0.63931411	0.80250518
408	0.6408849	0.80156698
409	0.6424557	0.80062681
410	0.64402649	0.79968466
411	0.64559729	0.79874053
412	0.64716809	0.79779444
413	0.64873888	0.79684638
414	0.65030968	0.79589635
415	0.65188048	0.79494435
416	0.65345127	0.7939904
417	0.65502207	0.79303448
418	0.65659286	0.79207661
419	0.65816366	0.79111679
420	0.65973446	0.79015501
421	0.66130525	0.78919129
422	0.66287605	0.78822561
423	0.66444685	0.78725799
424	0.66601764	0.78628843
425	0.66758844	0.78531693
426	0.66915924	0.78434349
427	0.67073003	0.78336812
428	0.67230083	0.78239081
429	0.67387162	0.78141157
430	0.67544242	0.78043041
431	0.67701322	0.77944732
432	0.67858401	0.7784623
433	0.68015481	0.77747537
434	0.68172561	0.77648651
435	0.6832964	0.77549574
436	0.6848672	0.77450306
437	0.68643799	0.77350847
438	0.68800879	0.77251196
439	0.68957959	0.77151356
440	0.69115038	0.77051324
441	0.69272118	0.76951103
442	0.69429198	0.76850692
443	0.69586277	0.76750091
444	0.69743357	0.76649301
445	0.69900437	0.76548321
446	0.70057516	0.76447153
447	0.70214596	0.76345796
448	0.70371675	0.76244251
449	0.70528755	0.76142518
450	0.70685835	0.76040597
451	0.70842914	0.75938488
452	0.70999994	0.75836192
453	0.71157074	0.75733708
454	0.71314153	0.75631038
455	0.71471233	0.75528181
456	0.71628313	0.75425138
457	0.71785392	0.75321909
458	0.71942472	0.75218494
459	0.72099551	0.75114893
460	0.72256631	0.75011107
461	0.72413711	0.74907136
462	0.7257079	0.7480298

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464	0.7288495	0.74594115
465	0.73042029	0.74489406
466	0.73199109	0.74384513
467	0.73356188	0.74279437
468	0.73513268	0.74174177
469	0.73670348	0.74068735
470	0.73827427	0.73963109
471	0.73984507	0.73857302
472	0.74141587	0.73751312
473	0.74298666	0.7364514
474	0.74455746	0.73538786
475	0.74612826	0.73432251
476	0.74769905	0.73325535
477	0.74926985	0.73218637
478	0.75084064	0.73111559
479	0.75241144	0.73004301
480	0.75398224	0.72896863
481	0.75555303	0.72789244
482	0.75712383	0.72681447
483	0.75869463	0.72573469
484	0.76026542	0.72465313
485	0.76183622	0.72356978
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487	0.76497781	0.72139772
488	0.76654861	0.72030902
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490	0.7696902	0.7181263
491	0.771261	0.71703227
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494	0.77597339	0.7137396
495	0.77754418	0.71263852
496	0.77911498	0.71153568
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544	0.8545132	0.65658576
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547	0.85922559	0.65302415
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688	1.08070787	0.47070393
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916	1.43884944	0.13156436
917	1.44042023	0.13000706
918	1.44199103	0.12844943
919	1.44356182	0.12689149
920	1.44513262	0.12533323
921	1.44670342	0.12377467
922	1.44827421	0.1222158
923	1.44984501	0.12065663
924	1.45141581	0.11909716
925	1.4529866	0.1175374
926	1.4545574	0.11597734
927	1.45612819	0.11441701
928	1.45769899	0.11285638
929	1.45926979	0.11129549
930	1.46084058	0.10973431
931	1.46241138	0.10817287
932	1.46398218	0.10661115
933	1.46555297	0.10504918
934	1.46712377	0.10348695

935	1.46869457	0.10192446
936	1.47026536	0.10036171
937	1.47183616	0.09879873
938	1.47340695	0.09723549
939	1.47497775	0.09567202
940	1.47654855	0.09410831
941	1.47811934	0.09254437
942	1.47969014	0.0909802
943	1.48126094	0.08941581
944	1.48283173	0.0878512
945	1.48440253	0.08628637
946	1.48597333	0.08472132
947	1.48754412	0.08315607
948	1.48911492	0.08159061
949	1.49068571	0.08002495
950	1.49225651	0.0784591
951	1.49382731	0.07689305
952	1.4953981	0.07532681
953	1.4969689	0.07376038
954	1.4985397	0.07219377
955	1.50011049	0.07062699
956	1.50168129	0.06906003
957	1.50325208	0.0674929
958	1.50482288	0.0659256
959	1.50639368	0.06435814
960	1.50796447	0.06279052
961	1.50953527	0.06122275
962	1.51110607	0.05965482
963	1.51267686	0.05808675
964	1.51424766	0.05651853
965	1.51581846	0.05495018
966	1.51738925	0.05338169
967	1.51896005	0.05181307
968	1.52053084	0.05024432
969	1.52210164	0.04867544
970	1.52367244	0.04710645
971	1.52524323	0.04553734
972	1.52681403	0.04396812
973	1.52838483	0.04239879
974	1.52995562	0.04082935
975	1.53152642	0.03925982
976	1.53309721	0.03769018
977	1.53466801	0.03612046
978	1.53623881	0.03455064
979	1.5378096	0.03298074
980	1.5393804	0.03141076
981	1.5409512	0.0298407
982	1.54252199	0.02827057
983	1.54409279	0.02670036
984	1.54566359	0.0251301
985	1.54723438	0.02355976
986	1.54880518	0.02198938
987	1.55037597	0.02041893
988	1.55194677	0.01884844
989	1.55351757	0.0172779
990	1.55508836	0.01570732
991	1.55665916	0.0141367
992	1.55822996	0.01256604
993	1.55980075	0.01099535

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1.56137155	0.00942464
1.56294235	0.0078539
1.56451314	0.00628314
1.56608394	0.00471237
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Rectangle	1.00078519
Trapezoidal	0.99999979
Simpson	1