Degrees to Radians Conversion Chart

Every degree from 0° to 360°, with exact multiples of π

For: Students, programmers, engineers and surveyors

allunitconversions.com/deg-to-rad-conversion-chart
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EXACT DEFINITION	FORMULA	REVERSE	WORKED EXAMPLE
180° = π rad exactly	rad = ° × π ÷ 180	° = rad × 180 ÷ π	45° × π ÷ 180 = π/4 = 0.785398 rad

Radians are rounded to 4 decimal places (6 for common angles).

Common angles

Degrees (°)	Radians (exact)	Radians (rad)	Gradians (gon)	Degrees (°)	Radians (exact)	Radians (rad)	Gradians (gon)
0	0	0.000000	0	**180**	π	3.141593	200
15	π/12	0.261799	16.6667	**210**	7π/6	3.665191	233.3333
30	π/6	0.523599	33.3333	**225**	5π/4	3.926991	250
45	π/4	0.785398	50	**240**	4π/3	4.188790	266.6667
60	π/3	1.047198	66.6667	**270**	3π/2	4.712389	300
90	π/2	1.570796	100	**300**	5π/3	5.235988	333.3333
120	2π/3	2.094395	133.3333	**315**	7π/4	5.497787	350
135	3π/4	2.356194	150	**330**	11π/6	5.759587	366.6667
150	5π/6	2.617994	166.6667	**360**	2π	6.283185	400

0° to 360° in 1° steps

Degrees (°)	Radians (rad)	Degrees (°)	Radians (rad)	Degrees (°)	Radians (rad)	Degrees (°)	Radians (rad)	Degrees (°)	Radians (rad)	Degrees (°)	Radians (rad)
0	0.0000	**61**	1.0647	**122**	2.1293	**183**	3.1940	**244**	4.2586	**305**	5.3233
1	0.0175	**62**	1.0821	**123**	2.1468	**184**	3.2114	**245**	4.2761	**306**	5.3407
2	0.0349	**63**	1.0996	**124**	2.1642	**185**	3.2289	**246**	4.2935	**307**	5.3582
3	0.0524	**64**	1.1170	**125**	2.1817	**186**	3.2463	**247**	4.3110	**308**	5.3756
4	0.0698	**65**	1.1345	**126**	2.1991	**187**	3.2638	**248**	4.3284	**309**	5.3931
5	0.0873	**66**	1.1519	**127**	2.2166	**188**	3.2812	**249**	4.3459	**310**	5.4105
6	0.1047	**67**	1.1694	**128**	2.2340	**189**	3.2987	**250**	4.3633	**311**	5.4280
7	0.1222	**68**	1.1868	**129**	2.2515	**190**	3.3161	**251**	4.3808	**312**	5.4454
8	0.1396	**69**	1.2043	**130**	2.2689	**191**	3.3336	**252**	4.3982	**313**	5.4629
9	0.1571	**70**	1.2217	**131**	2.2864	**192**	3.3510	**253**	4.4157	**314**	5.4803
10	0.1745	**71**	1.2392	**132**	2.3038	**193**	3.3685	**254**	4.4331	**315**	5.4978
11	0.1920	**72**	1.2566	**133**	2.3213	**194**	3.3859	**255**	4.4506	**316**	5.5152
12	0.2094	**73**	1.2741	**134**	2.3387	**195**	3.4034	**256**	4.4680	**317**	5.5327
13	0.2269	**74**	1.2915	**135**	2.3562	**196**	3.4208	**257**	4.4855	**318**	5.5501
14	0.2443	**75**	1.3090	**136**	2.3736	**197**	3.4383	**258**	4.5029	**319**	5.5676
15	0.2618	**76**	1.3265	**137**	2.3911	**198**	3.4558	**259**	4.5204	**320**	5.5851
16	0.2793	**77**	1.3439	**138**	2.4086	**199**	3.4732	**260**	4.5379	**321**	5.6025
17	0.2967	**78**	1.3614	**139**	2.4260	**200**	3.4907	**261**	4.5553	**322**	5.6200
18	0.3142	**79**	1.3788	**140**	2.4435	**201**	3.5081	**262**	4.5728	**323**	5.6374
19	0.3316	**80**	1.3963	**141**	2.4609	**202**	3.5256	**263**	4.5902	**324**	5.6549
20	0.3491	**81**	1.4137	**142**	2.4784	**203**	3.5430	**264**	4.6077	**325**	5.6723

Degrees (°)	Radians (rad)
21	0.3665
22	0.3840
23	0.4014
24	0.4189
25	0.4363
26	0.4538
27	0.4712
28	0.4887
29	0.5061
30	0.5236
31	0.5411
32	0.5585
33	0.5760
34	0.5934
35	0.6109
36	0.6283
37	0.6458
38	0.6632
39	0.6807
40	0.6981
41	0.7156
42	0.7330
43	0.7505
44	0.7679
45	0.7854
46	0.8029
47	0.8203
48	0.8378
49	0.8552
50	0.8727
51	0.8901
52	0.9076
53	0.9250
54	0.9425
55	0.9599
56	0.9774
57	0.9948
58	1.0123
59	1.0297
60	1.0472

Degrees (°)	Radians (rad)
82	1.4312
83	1.4486
84	1.4661
85	1.4835
86	1.5010
87	1.5184
88	1.5359
89	1.5533
90	1.5708
91	1.5882
92	1.6057
93	1.6232
94	1.6406
95	1.6581
96	1.6755
97	1.6930
98	1.7104
99	1.7279
100	1.7453
101	1.7628
102	1.7802
103	1.7977
104	1.8151
105	1.8326
106	1.8500
107	1.8675
108	1.8850
109	1.9024
110	1.9199
111	1.9373
112	1.9548
113	1.9722
114	1.9897
115	2.0071
116	2.0246
117	2.0420
118	2.0595
119	2.0769
120	2.0944
121	2.1118

Degrees (°)	Radians (rad)
143	2.4958
144	2.5133
145	2.5307
146	2.5482
147	2.5656
148	2.5831
149	2.6005
150	2.6180
151	2.6354
152	2.6529
153	2.6704
154	2.6878
155	2.7053
156	2.7227
157	2.7402
158	2.7576
159	2.7751
160	2.7925
161	2.8100
162	2.8274
163	2.8449
164	2.8623
165	2.8798
166	2.8972
167	2.9147
168	2.9322
169	2.9496
170	2.9671
171	2.9845
172	3.0020
173	3.0194
174	3.0369
175	3.0543
176	3.0718
177	3.0892
178	3.1067
179	3.1241
180	3.1416
181	3.1590
182	3.1765

Degrees (°)	Radians (rad)
204	3.5605
205	3.5779
206	3.5954
207	3.6128
208	3.6303
209	3.6477
210	3.6652
211	3.6826
212	3.7001
213	3.7176
214	3.7350
215	3.7525
216	3.7699
217	3.7874
218	3.8048
219	3.8223
220	3.8397
221	3.8572
222	3.8746
223	3.8921
224	3.9095
225	3.9270
226	3.9444
227	3.9619
228	3.9794
229	3.9968
230	4.0143
231	4.0317
232	4.0492
233	4.0666
234	4.0841
235	4.1015
236	4.1190
237	4.1364
238	4.1539
239	4.1713
240	4.1888
241	4.2062
242	4.2237
243	4.2412

Degrees (°)	Radians (rad)
265	4.6251
266	4.6426
267	4.6600
268	4.6775
269	4.6949
270	4.7124
271	4.7298
272	4.7473
273	4.7647
274	4.7822
275	4.7997
276	4.8171
277	4.8346
278	4.8520
279	4.8695
280	4.8869
281	4.9044
282	4.9218
283	4.9393
284	4.9567
285	4.9742
286	4.9916
287	5.0091
288	5.0265
289	5.0440
290	5.0615
291	5.0789
292	5.0964
293	5.1138
294	5.1313
295	5.1487
296	5.1662
297	5.1836
298	5.2011
299	5.2185
300	5.2360
301	5.2534
302	5.2709
303	5.2883
304	5.3058

Degrees (°)	Radians (rad)
326	5.6898
327	5.7072
328	5.7247
329	5.7421
330	5.7596
331	5.7770
332	5.7945
333	5.8119
334	5.8294
335	5.8469
336	5.8643
337	5.8818
338	5.8992
339	5.9167
340	5.9341
341	5.9516
342	5.9690
343	5.9865
344	6.0039
345	6.0214
346	6.0388
347	6.0563
348	6.0737
349	6.0912
350	6.1087
351	6.1261
352	6.1436
353	6.1610
354	6.1785
355	6.1959
356	6.2134
357	6.2308
358	6.2483
359	6.2657
360	6.2832

Sources and method

- **BIPM SI Brochure, 9th edition** — Definitions of the SI units, including the kelvin (www.bipm.org/en/publications/si-brochure)
- **NIST Special Publication 811** — Guide for the Use of the International System of Units (www.nist.gov/pml/special-publication-811)

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