

Degrees to Radians Conversion Chart

This chart provides a convenient reference for converting between degrees (°) and radians (rad). The standardized conversion is based on the relationship that $180^\circ = \pi$ radians.

Conversion Formulas:

To convert Degrees to Radians: **Radians = Degrees $\times (\pi/180)$**

To convert Radians to Degrees: **Degrees = Radians $\times (180/\pi)$**

How to Convert Degrees to Radians:

1. Take your measurement in degrees.
2. Multiply this number by $\pi/180$ (approximately 0.01745).
3. The result is your measurement in radians.

Example:

To convert 90 degrees to radians:

$$90^\circ \times (\pi/180) = \pi/2 \approx 1.5708 \text{ radians}$$

How to Convert Radians to Degrees:

1. Take your measurement in radians.
2. Multiply this number by $180/\pi$ (approximately 57.2958).
3. The result is your measurement in degrees.

Example:

To convert $\pi/4$ radians to degrees:

$$(\pi/4) \times (180/\pi) = 45^\circ$$

Common Conversions (1-120 degrees)

Degrees (°)	Radians (rad)	Degrees (°)	Radians (rad)
1°	0.017453 rad	25°	0.436332 rad
2°	0.034907 rad	30°	0.523599 rad
3°	0.052360 rad	35°	0.610865 rad
4°	0.069813 rad	40°	0.698132 rad
5°	0.087266 rad	45°	0.785398 rad
6°	0.104720 rad	50°	0.872665 rad
7°	0.122173 rad	55°	0.959931 rad
8°	0.139626 rad	60°	1.047198 rad
9°	0.157080 rad	65°	1.134464 rad
10°	0.174533 rad	70°	1.221730 rad
11°	0.191986 rad	75°	1.308997 rad
12°	0.209440 rad	80°	1.396263 rad
13°	0.226893 rad	85°	1.483530 rad
14°	0.244346 rad	90°	1.570796 rad
15°	0.261799 rad	95°	1.658063 rad
16°	0.279253 rad	100°	1.745329 rad
17°	0.296706 rad	105°	1.832596 rad
18°	0.314159 rad	110°	1.919862 rad

19°	0.331613 rad	115°	2.007129 rad
20°	0.349066 rad	120°	2.094395 rad

Practical Equivalents:

- $30^\circ = \pi/6 \text{ rad} \approx 0.5236 \text{ rad}$
- $45^\circ = \pi/4 \text{ rad} \approx 0.7854 \text{ rad}$
- $60^\circ = \pi/3 \text{ rad} \approx 1.0472 \text{ rad}$
- $90^\circ = \pi/2 \text{ rad} \approx 1.5708 \text{ rad}$
- $180^\circ = \pi \text{ rad} \approx 3.1416 \text{ rad}$
- $360^\circ = 2\pi \text{ rad} \approx 6.2832 \text{ rad}$

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