

Exact trigonometric values

Degrees	Radians	sin	cos	tan
0°	0	0	1	0
30°	$\pi/6$	1/2	$\sqrt{3}/2$	$\sqrt{3}/3$
45°	$\pi/4$	$\sqrt{2}/2$	$\sqrt{2}/2$	1
60°	$\pi/3$	$\sqrt{3}/2$	1/2	$\sqrt{3}$
90°	$\pi/2$	1	0	undefined
120°	$2\pi/3$	$\sqrt{3}/2$	-1/2	$-\sqrt{3}$
135°	$3\pi/4$	$\sqrt{2}/2$	$-\sqrt{2}/2$	-1
150°	$5\pi/6$	1/2	$-\sqrt{3}/2$	$-\sqrt{3}/3$
180°	π	0	-1	0
210°	$7\pi/6$	-1/2	$-\sqrt{3}/2$	$\sqrt{3}/3$
225°	$5\pi/4$	$-\sqrt{2}/2$	$-\sqrt{2}/2$	1
240°	$4\pi/3$	$-\sqrt{3}/2$	-1/2	$\sqrt{3}$
270°	$3\pi/2$	-1	0	undefined
300°	$5\pi/3$	$-\sqrt{3}/2$	1/2	$-\sqrt{3}$
315°	$7\pi/4$	$-\sqrt{2}/2$	$\sqrt{2}/2$	-1
330°	$11\pi/6$	-1/2	$\sqrt{3}/2$	$-\sqrt{3}/3$

Notes