

In your notebook:

$$\sin 30^\circ = \frac{1}{2}$$

$$\cos 30^\circ = \frac{\sqrt{3}}{2}$$

$$\tan 30^\circ = \frac{\sqrt{3}}{3}$$

$$\csc 30^\circ = 2$$

$$\sec 30^\circ = \frac{2\sqrt{3}}{3}$$

$$\cot 30^\circ = \sqrt{3}$$

$$\sin 45^\circ = \frac{\sqrt{2}}{2}$$

$$\cos 45^\circ = \frac{\sqrt{2}}{2}$$

$$\tan 45^\circ = 1$$

$$\csc 45^\circ = \sqrt{2}$$

$$\sec 45^\circ = \sqrt{2}$$

$$\cot 45^\circ = 1$$

$$\sin 60^\circ = \frac{\sqrt{3}}{2}$$

$$\cos 60^\circ = \frac{1}{2}$$

$$\tan 60^\circ = \sqrt{3}$$

$$\csc 60^\circ = \frac{2\sqrt{3}}{3}$$

$$\sec 60^\circ = 2$$

$$\cot 60^\circ = \frac{\sqrt{3}}{3}$$

	0°	30°	45°	60°	90°	120°	135°	150°	180°	210°	225°	240°	270°	300°	315°	330°	360°
	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	$\frac{5\pi}{6}$	π	$\frac{7\pi}{6}$	$\frac{5\pi}{4}$	$\frac{4\pi}{3}$	$\frac{3\pi}{2}$	$\frac{5\pi}{3}$	$\frac{7\pi}{4}$	$\frac{11\pi}{6}$	2π
sin θ	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{3}}{2}$	-1	$-\frac{\sqrt{3}}{2}$	$-\frac{\sqrt{2}}{2}$	$-\frac{1}{2}$	0
cos θ	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	$-\frac{1}{2}$	$-\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{3}}{2}$	-1	$-\frac{\sqrt{3}}{2}$	$-\frac{\sqrt{2}}{2}$	$-\frac{1}{2}$	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
tan θ	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	und.	$-\sqrt{3}$	-1	$-\frac{\sqrt{3}}{3}$	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	und.	$-\sqrt{3}$	-1	$-\frac{\sqrt{3}}{3}$	0
csc θ	und.	2	$\sqrt{2}$	$\frac{2\sqrt{3}}{3}$	1	$\frac{2\sqrt{3}}{3}$	$\sqrt{2}$	2	und.	-2	$-\sqrt{2}$	$-\frac{2\sqrt{3}}{3}$	-1	$-\frac{2\sqrt{3}}{3}$	$-\sqrt{2}$	-2	und.
sec θ	1	$\frac{2\sqrt{3}}{3}$	$\sqrt{2}$	2	und.	-2	$-\sqrt{2}$	$-\frac{2\sqrt{3}}{3}$	-1	$-\frac{2\sqrt{3}}{3}$	$-\sqrt{2}$	-2	und.	2	$\sqrt{2}$	$\frac{2\sqrt{3}}{3}$	1
cot θ	und.	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	$-\frac{\sqrt{3}}{3}$	-1	$-\sqrt{3}$	und.	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	$-\frac{\sqrt{3}}{3}$	-1	$-\sqrt{3}$	und.

Q I

Q II
 sin θ, csc θ +
 cos θ, tan θ } -
 sec θ, cot θ }

Q III
 tan θ, cot θ +
 sin θ, csc θ } -
 cos θ, sec θ }

Q IV
 cos θ, sec θ +
 sin θ, csc θ } -
 tan θ, cot θ }

$$\sin 225^\circ = -\frac{\sqrt{2}}{2}$$

$$\tan \frac{\pi}{3} = \sqrt{3}$$

$$\cos\left(-\frac{7\pi}{6}\right) = \cos \frac{7\pi}{6} = \frac{\sqrt{3}}{2}$$

$$\sec 390^\circ = \sec 30^\circ = \frac{2\sqrt{3}}{3}$$

$$\csc(-45^\circ) = -\csc(45^\circ) = -\sqrt{2}$$

$$\sin \frac{19\pi}{3} = \sin 60^\circ = \frac{\sqrt{3}}{2}$$

$$\frac{19\pi}{3} - \frac{180}{\pi} = \frac{1140^\circ}{3} = 380^\circ$$

$$380^\circ - 360^\circ = 20^\circ$$

$$20^\circ - 20^\circ = 0^\circ$$