

In your notebook:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

	0°	30°	45°	60°	90°	120°	135°	150°	180°	210°	225°	240°	270°	300°	315°	330°	360°
	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	$\frac{5\pi}{6}$	$\pi$	$\frac{7\pi}{6}$	$\frac{5\pi}{4}$	$\frac{4\pi}{3}$	$\frac{3\pi}{2}$	$\frac{5\pi}{3}$	$\frac{7\pi}{4}$	$\frac{11\pi}{6}$	$2\pi$
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	$-\sqrt{3}$	0	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	$-\frac{\sqrt{3}}{3}$	-1	$-\sqrt{3}$	und

Q I  
all +

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

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

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

$$\sin \frac{11\pi}{6} = -\frac{1}{2}$$

$$\cos 315^\circ = \frac{\sqrt{2}}{2}$$

$$\sec 480^\circ = \frac{-360}{-360} = -2$$

$$\begin{aligned} \cot \frac{19\pi}{3} &= \cot \frac{180}{\pi} \\ &= \cot 1140^\circ \\ &= \frac{-360}{780} \\ &= \frac{-720}{780} \\ \cot 60^\circ &= \frac{\sqrt{3}}{3} \end{aligned}$$

$$\frac{\csc(-135^\circ)}{+360}$$
$$\csc 225^\circ = -\sqrt{2}$$