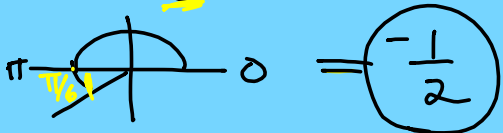


SPECIAL ANGLE VALUES.

RADIANS

$$30^\circ \cdot \frac{\pi}{180^\circ} = \frac{\pi}{6}$$

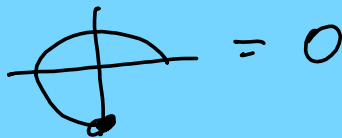
$$\sin \frac{7\pi}{6} = 1/6$$



$$\sec \frac{3\pi}{4} = \frac{2 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} = \frac{2\sqrt{2}}{2}$$






$$\cot \frac{3\pi}{2} = 0$$




Deg	Rads	Sin/csc	cos/sec	tan/cot
0°	0	$\frac{\sqrt{0}}{2} = 0$	1	$\frac{0}{1} = 0$
30°	$\frac{\pi}{6}$	$\frac{\sqrt{1}}{2} = \frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$
45°	$\frac{\pi}{4}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{\sqrt{2}} = 1$
60°	$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{1} = \sqrt{3}$
90°	$\frac{\pi}{2}$	$\frac{\sqrt{4}}{2} = 1$	0	$\frac{1}{0} = \text{undef}$

$$\frac{0}{1} = 0$$

Deg	Rads	Sin/csc	cos/sec	tan/cot
0°	0	$\frac{\sqrt{0}}{2} = 0$	1	$\frac{0}{1} = 0$
30°	$\frac{\pi}{6}$	$\frac{\sqrt{1}}{2} = \frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3}$
45°	$\frac{\pi}{4}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{\sqrt{2}} = 1$
60°	$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{1} = \sqrt{3}$
90°	$\frac{\pi}{2}$	$\frac{\sqrt{4}}{2} = 1$	0	$\frac{1}{0} = \text{undef}$

$\frac{\pi}{4}$ 
 $\frac{\pi}{3}$ 
 $\frac{1}{3}$ $\frac{\pi}{6}$ 

$$\cos^2\left(\frac{11\pi}{4}\right) + \csc\left(-\frac{9\pi}{3}\right)\tan\left(\frac{11\pi}{6}\right)$$

$\sin \frac{3\pi}{2} + \cos 17\pi$ 

$$\left(-\frac{\sqrt{2}}{2}\right)^2 + \left(\frac{2}{\sqrt{3}}\right)\left(-\frac{\sqrt{3}}{3}\right)$$

$-1 + -1$

$$= \frac{\frac{2}{4} + -2/3}{-2}$$

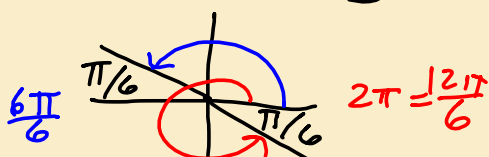
$$= \frac{\frac{1}{2} - \frac{2}{3}}{-2} = \frac{\frac{3}{6} - \frac{4}{6}}{-2} = \frac{-\frac{1}{6}}{-2}$$

$$= -\frac{1}{6} \cdot -\frac{1}{2} = \frac{1}{12}$$

Find all possible angle for θ if $0 \leq \theta < 2\pi$.

$$\tan \theta = -\frac{\sqrt{3}}{3}$$

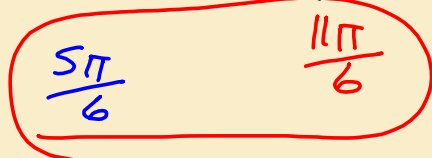
Answers in Rads



1) Find quadrants

2) Determine referenc \angle in Rads

3) Name angles.



$$\csc \theta = -\sqrt{2}$$

