

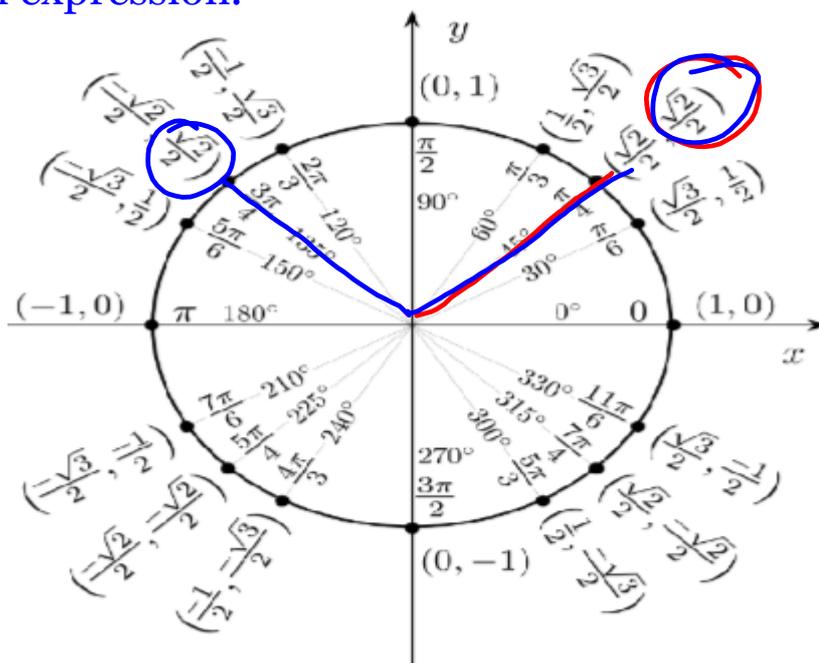
Warm - Up

Find the value of each expression.

$$1.) \sin \frac{\pi}{4} = \frac{\sqrt{2}}{2}$$

$$2.) \sin^{-1}\left(\frac{\sqrt{2}}{2}\right) =$$

$45^\circ, 135^\circ$



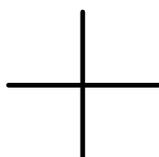
Day 1

5.6

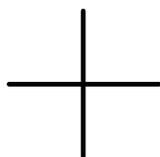
I can evaluate composition of trigonometric functions.

REMEMBER!!!**Inverse Sine** \sin^{-1} arcsin

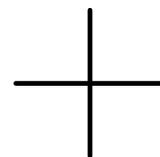
QI & QIV

 $[-90^\circ, 90^\circ]$ $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$ **Inverse Cosine** \cos^{-1} arccos

QI & QII

 $[0^\circ, 180^\circ]$ $[0, \pi]$ **Inverse Tangent** \tan^{-1} arctan

QI & QIV

 $(-90^\circ, 90^\circ)$ $\left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$ 

Find the exact value of each expression.

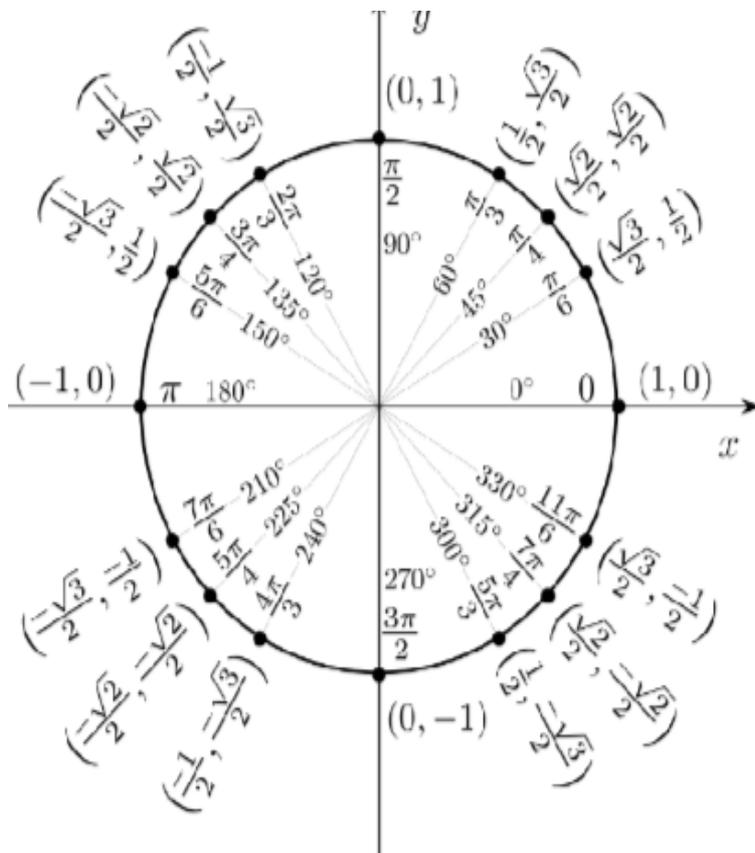
1.) $\tan^{-1}\left(\csc\frac{\pi}{2}\right)$ 1st

$\frac{y}{x}\tan^{-1}(1) = \boxed{45^\circ, 225^\circ}$

2.) $\arccos\left(\sin\left(-\frac{\pi}{4}\right)\right)$

$\arccos\left(-\frac{\sqrt{2}}{2}\right)$

$\boxed{135^\circ, 225^\circ}$



3.) $\arctan(\overset{\text{cos}}{\sec} \pi)$

$\arctan(-1)$
 $\theta = 315^\circ, 135^\circ$

$\frac{7\pi}{4}, \frac{3\pi}{4}$

4.) $\sin^{-1}\left(\sin\left(-\frac{\pi}{3}\right)\right)$

$-\frac{\pi}{3}$