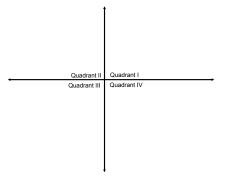


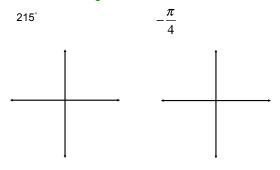
Definition of a radian https://en.wikipedia.org/wiki/Radian#mediaviewer/File:Circle_radians.g

https://en.wikipedia.org/wiki/Radian#mediaviewer/File:Circle_radians.gif			
CONVERTING DEGREES TO	RADIANS	CONVERTING RADIANS TO DEGREES	
Multiply the number of degrees	by $\left(\frac{\pi \text{ radians}}{180^\circ}\right)$.	Multiply the number of radians by $\left(\frac{180^{\circ}}{\pi \text{ radians}}\right)$.	
Convert each measure from degrees			
to radians or from radians to degrees.			
-495 [°]		5π	
	-	4	
		7π	
120 [°]	_	6	

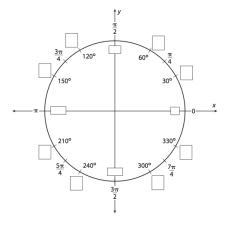
Reference Angles: The acute angle formed by the terminal side and the x-axis.



Draw the given angle. Find a coterminal angle and state the reference angle.



 The unit circle below shows the measures of angles of rotation that are commonly used in trigonometry, with radian measures outside the circle and degree measures inside the circle. Provide the missing measures.

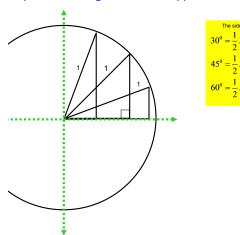


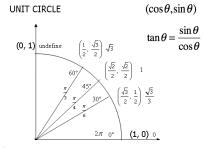
Special Triangles with a Hypotenuses of 1

 $\frac{1}{2}$ Hypotenuse

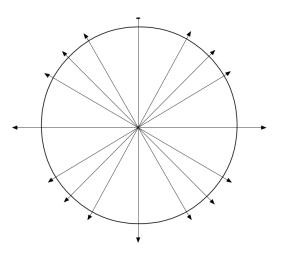
-Hypotenuse√2

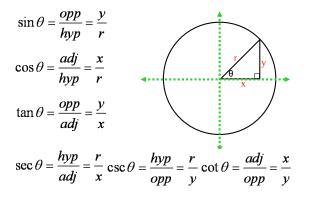
 $\frac{1}{2}$ Hypotenuse $\sqrt{3}$





Create your own unit circle on a paper plate





Evaluate the following		
$\sin \pi =$	$\csc\frac{5\pi}{4} =$	
$\cos\frac{3\pi}{4} =$	$\sec \frac{\pi}{6} =$	
$\tan\frac{11\pi}{6} =$	$\cot\frac{\pi}{3} =$	

Evaluate the following

$$\sin\frac{13\pi}{4} \qquad \qquad \csc\frac{19\pi}{6}$$

$$\tan\left(-\frac{\pi}{4}\right) \qquad \sec\left(-\frac{3\pi}{2}\right)$$

Find the angle or value

$$\sin\theta = \frac{\sqrt{3}}{2} \qquad \qquad \csc\theta = -2$$

$$\cos\theta = -\frac{1}{2} \qquad \qquad \sec\theta = \frac{2}{\sqrt{3}}$$

$$\tan\theta = und \qquad \qquad \cot\theta = \frac{1}{\sqrt{3}}$$

Find the angle that satisfies the following equations:

$$\cos\theta = -\frac{\sqrt{3}}{2}; \ 0 \le \theta \le \pi$$

$$\tan\theta = -\frac{\sqrt{3}}{3}; -\frac{\pi}{2} \le \theta \le \frac{\pi}{2}$$

$$\sin\theta = -\frac{\sqrt{3}}{2}; \ -\frac{\pi}{2} \le \theta \le \frac{\pi}{2}$$