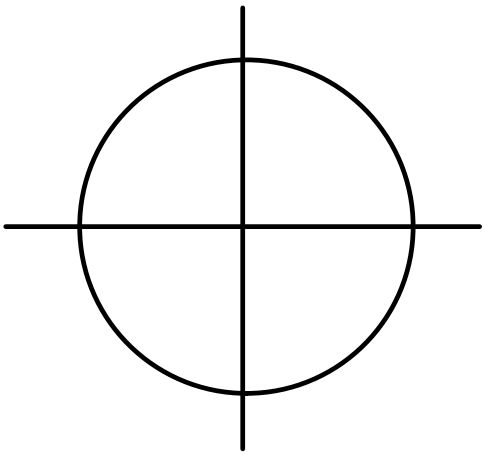
Converting Angle Measure

A radian is just another way to measure an angle. A radian is associated with the radius length of a circle.

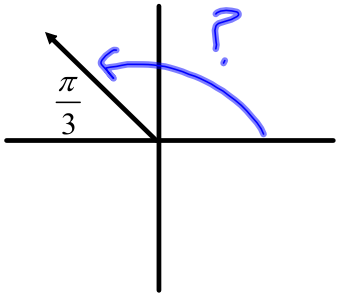
click dot and scroll down for ***Radian Animation*** :

A circle has 360 degrees or 2π radians, which is approximately 6.28 radians.

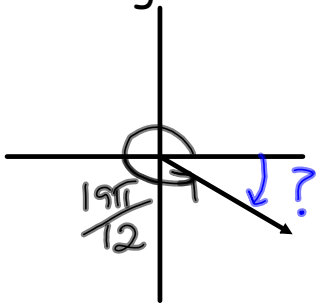


Examples: Find the measure of each angle.

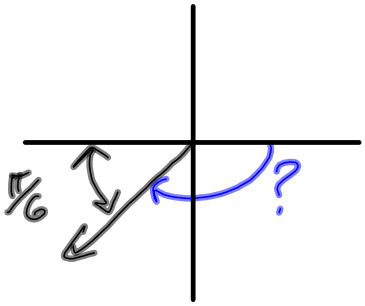
a)



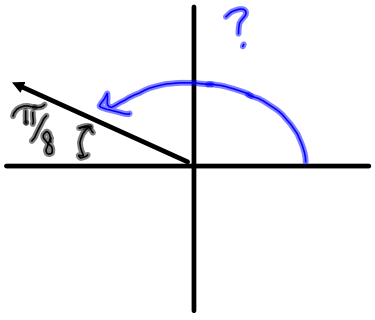
b)



c)



d)



Converting Angle Measures

degrees to radians	radians to degrees
$r = d \cdot \frac{\pi}{180^\circ}$	$d = r \cdot \frac{180^\circ}{\pi}$

We always leave π as π when converting ...

do NOT evaluate for π !

Examples:

a) Convert 30° to radians.

b) Convert $\frac{4\pi}{9}$ to degrees.