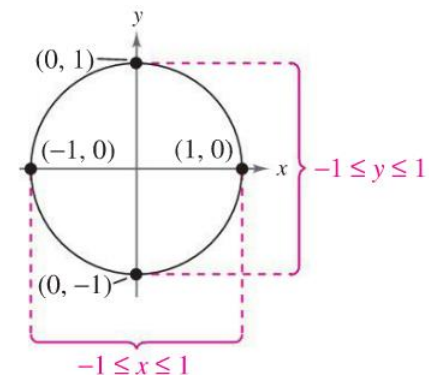


Let  $t$  be a real number and let  $(x, y)$  be the point on the **unit circle** corresponding to  $t$ .

$$\sin t = \quad \cos t = \quad \tan t =$$

$$\csc t = \quad \sec t = \quad \cot t =$$

## Domain and Range of Sine and Cosine



## Even and Odd Trig Functions

Find the following.

a.  $\cos \frac{9\pi}{3}$

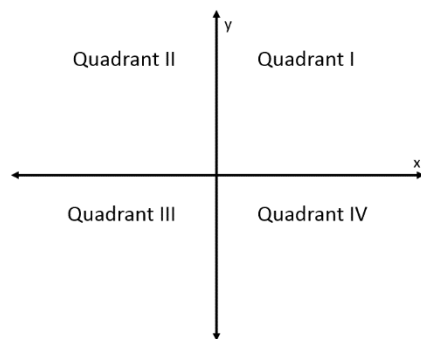
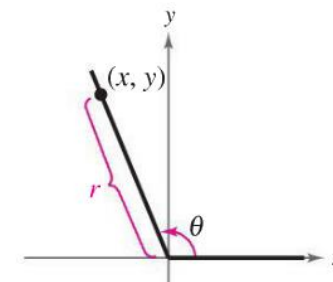
b.  $\sin \left( -\frac{11\pi}{2} \right)$

c. If  $\tan(t) = \frac{2}{3}$ , find  $\tan(-t)$ .

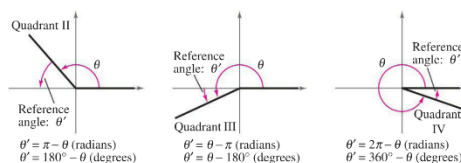
$$\sin t = \quad \cos t = \quad \tan t =$$

$$\csc t = \quad \sec t = \quad \cot t =$$

Let  $\theta$  be an angle in standard position with  $(x, y)$  a point on the terminal side of  $\theta$  and  $r = \sqrt{x^2 + y^2} \neq 0$ .



If you know the common angles, you can use reference angles to quickly find other angles.



$\theta$ (degrees)	$0^\circ$	$30^\circ$	$45^\circ$	$60^\circ$	$90^\circ$	$180^\circ$	$270^\circ$
$\theta$ (radians)							
$\sin \theta$							
$\cos \theta$							
$\tan \theta$							

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