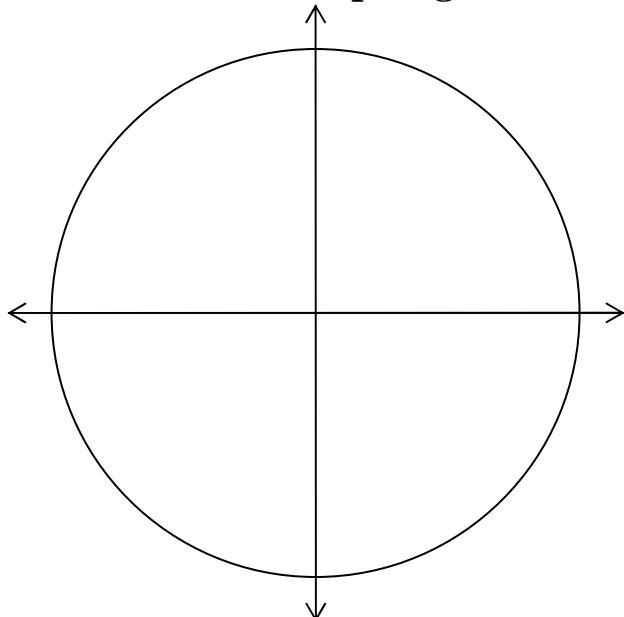


Worksheet for Graphing the six trigonometric functions



Label angles in radians:

$0, \pi/2, \pi, 3\pi/2, 2\pi$, and

angles between 0 and 2π with a reference angle of $\pi/4$.

Label the points on the unit circle that correspond to the above angles.

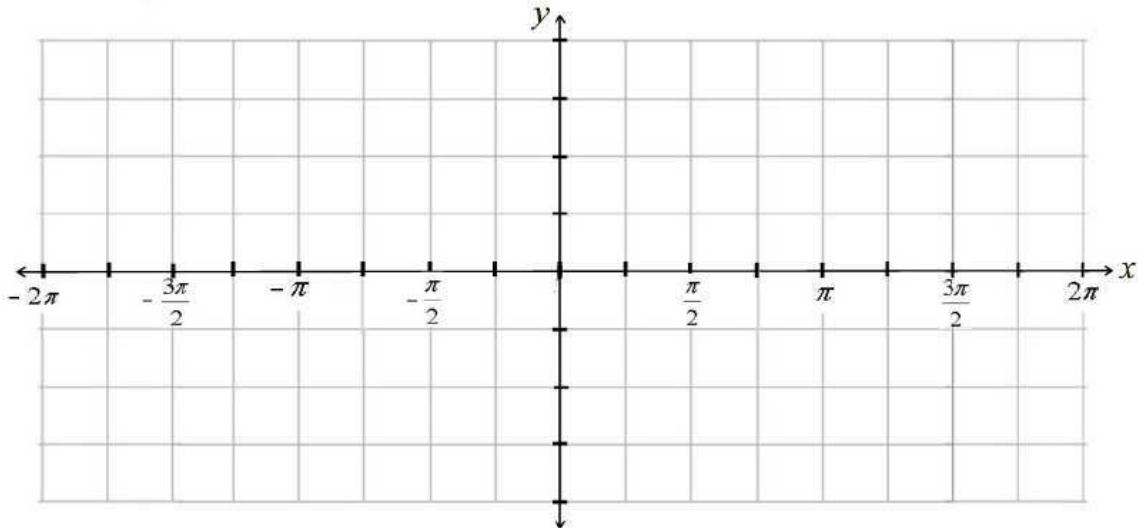
NOTE: any point $(a, b) = (\cos \theta, \sin \theta)$

Fill in the following table, with values rounded to the nearest tenth:

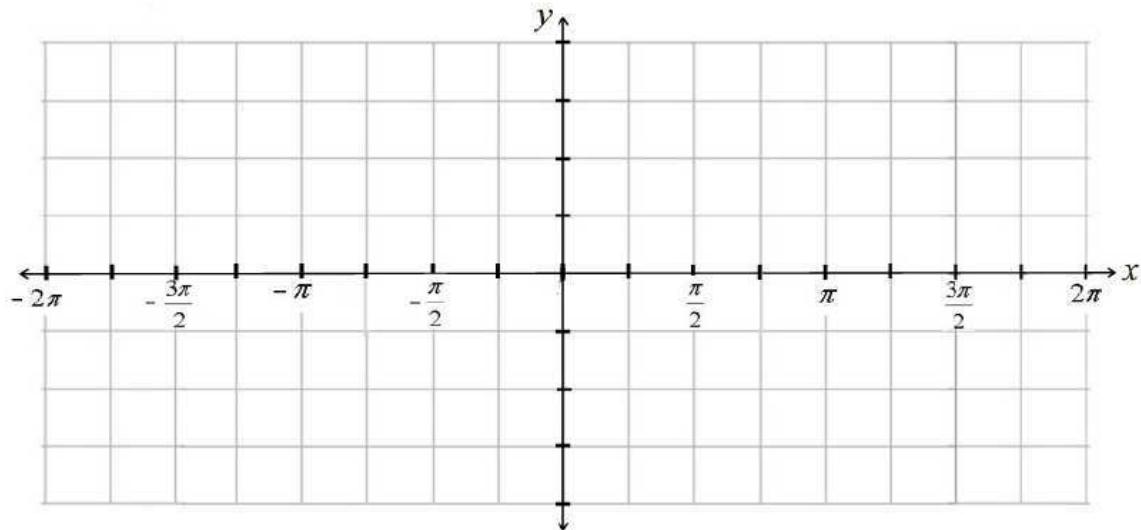
θ	$\sin \theta$	$\csc \theta$	$\cos \theta$	$\sec \theta$	$\tan \theta$	$\cot \theta$
0						
$\pi/4$						
$\pi/2$						
$3\pi/4$						
π						
$5\pi/4$						
$3\pi/2$						
$7\pi/4$						
2π						

Now graph $y = \sin \theta$ by plotting the values $(\theta, \sin \theta)$.

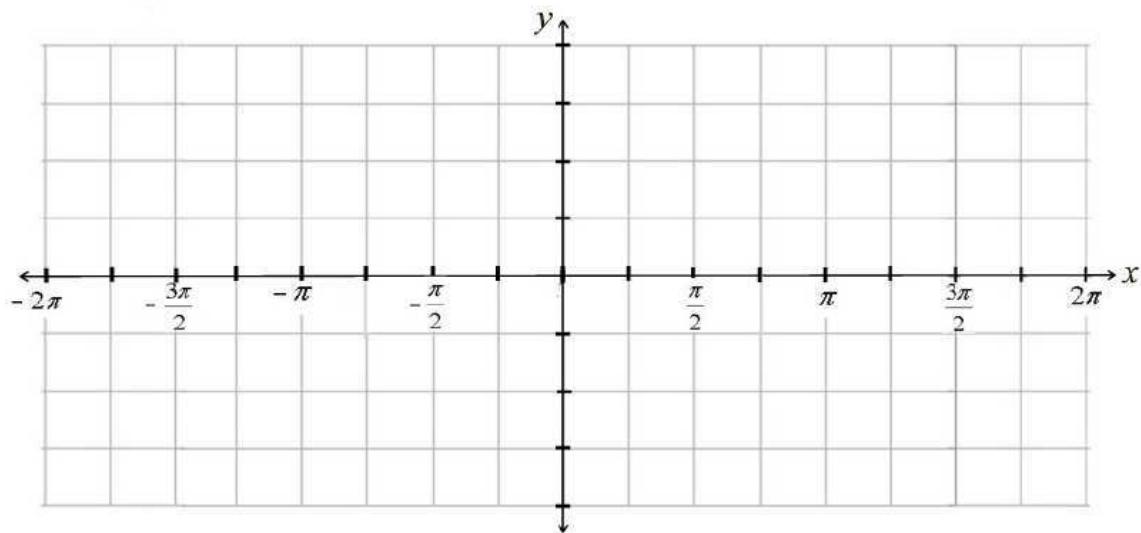
On the next page, graph other functions.



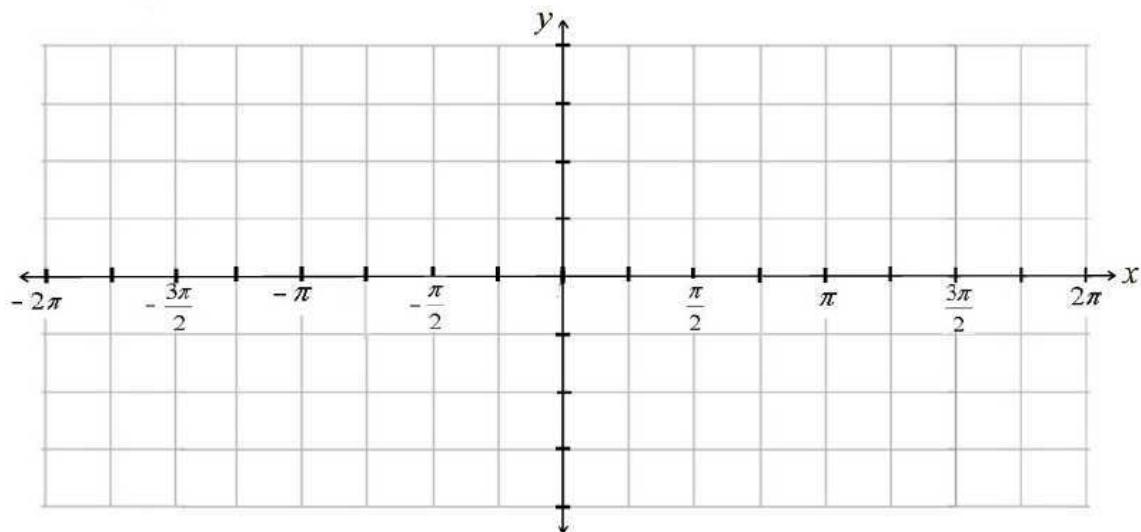
Graph $y = \csc \theta$ by plotting the values $(\theta, \csc \theta)$.



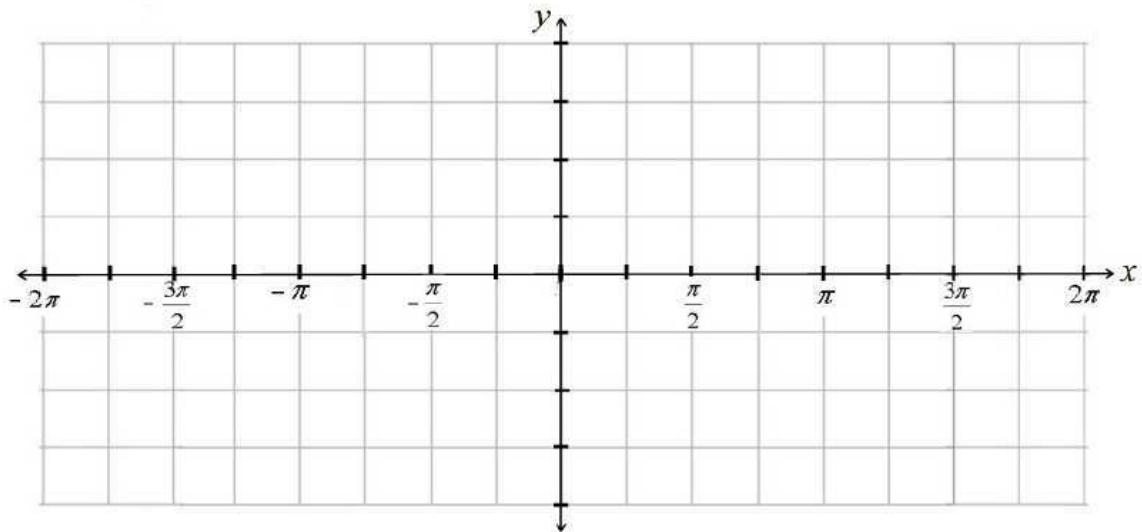
Graph $y = \cos \theta$ by plotting the values $(\theta, \cos \theta)$.



Graph $y = \sec \theta$ by plotting the values $(\theta, \sec \theta)$.



Graph $y = \cot \theta$ by plotting the values $(\theta, \cot \theta)$.



Graph $y = \tan \theta$ by plotting the values $(\theta, \tan \theta)$.

