

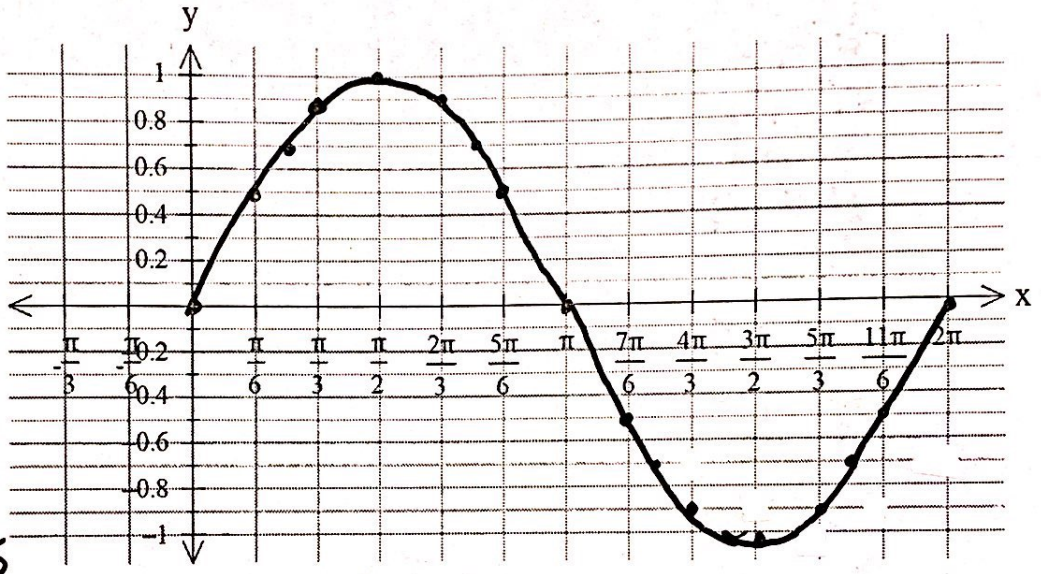
Review of Unit Circle

Name _____ Date _____ Period Key

Complete the table for each function using the values from the unit circle. Plot the points on the graph provided, then draw the graph. Sine and Cosine function graphs should look like waves. The tangent graph will look similar to a cubic function but with asymptotes where there are values that are undefined.

1. $f(\theta) = \sin \theta$
 rad. θ y

θ	$f(\theta)$
0	0
$\frac{\pi}{6}$	$\frac{1}{2} = .5$
$\frac{\pi}{4}$	$\frac{\sqrt{2}}{2} = .7$
$\frac{\pi}{3}$	$\frac{\sqrt{3}}{2} = .9$
$\frac{\pi}{2}$	1
$\frac{2\pi}{3}$	$\frac{\sqrt{3}}{2} = .9$
$\frac{3\pi}{4}$	$\frac{\sqrt{2}}{2} = .7$
$\frac{5\pi}{6}$	$\frac{1}{2} = .5$
π	0
$\frac{7\pi}{6}$	$-\frac{1}{2} = -.5$
$\frac{5\pi}{4}$	$-\frac{\sqrt{2}}{2} = -.7$
$\frac{4\pi}{3}$	$-\frac{\sqrt{3}}{2} = -.9$
$\frac{3\pi}{2}$	-1
$\frac{5\pi}{3}$	$-\frac{\sqrt{3}}{2} = -.9$
$\frac{7\pi}{4}$	$-\frac{\sqrt{2}}{2} = -.7$
$\frac{11\pi}{6}$	$-\frac{1}{2} = -.5$
2π	0



$\cos \theta$

2. $f(\theta) = \sin \theta$

θ	$f(\theta)$
0	1
$\frac{\pi}{6}$	$\frac{\sqrt{3}}{2} = .9$
$\frac{\pi}{4}$	$\frac{\sqrt{2}}{2} = .7$
$\frac{\pi}{3}$	$\frac{1}{2} = .5$
$\frac{\pi}{2}$	0
$\frac{2\pi}{3}$	$-\frac{1}{2} = -.5$
$\frac{3\pi}{4}$	$-\frac{\sqrt{2}}{2} = -.7$
$\frac{5\pi}{6}$	$-\frac{\sqrt{3}}{2} = -.9$
π	-1
$\frac{7\pi}{6}$	$-\frac{\sqrt{3}}{2} = -.9$
$\frac{5\pi}{4}$	$-\frac{\sqrt{2}}{2} = -.7$
$\frac{4\pi}{3}$	$-\frac{1}{2} = -.5$
$\frac{3\pi}{2}$	0
$\frac{5\pi}{3}$	$\frac{1}{2} = .5$
$\frac{7\pi}{4}$	$\frac{\sqrt{2}}{2} = .7$
$\frac{11\pi}{6}$	$\frac{\sqrt{3}}{2} = .9$
2π	1

