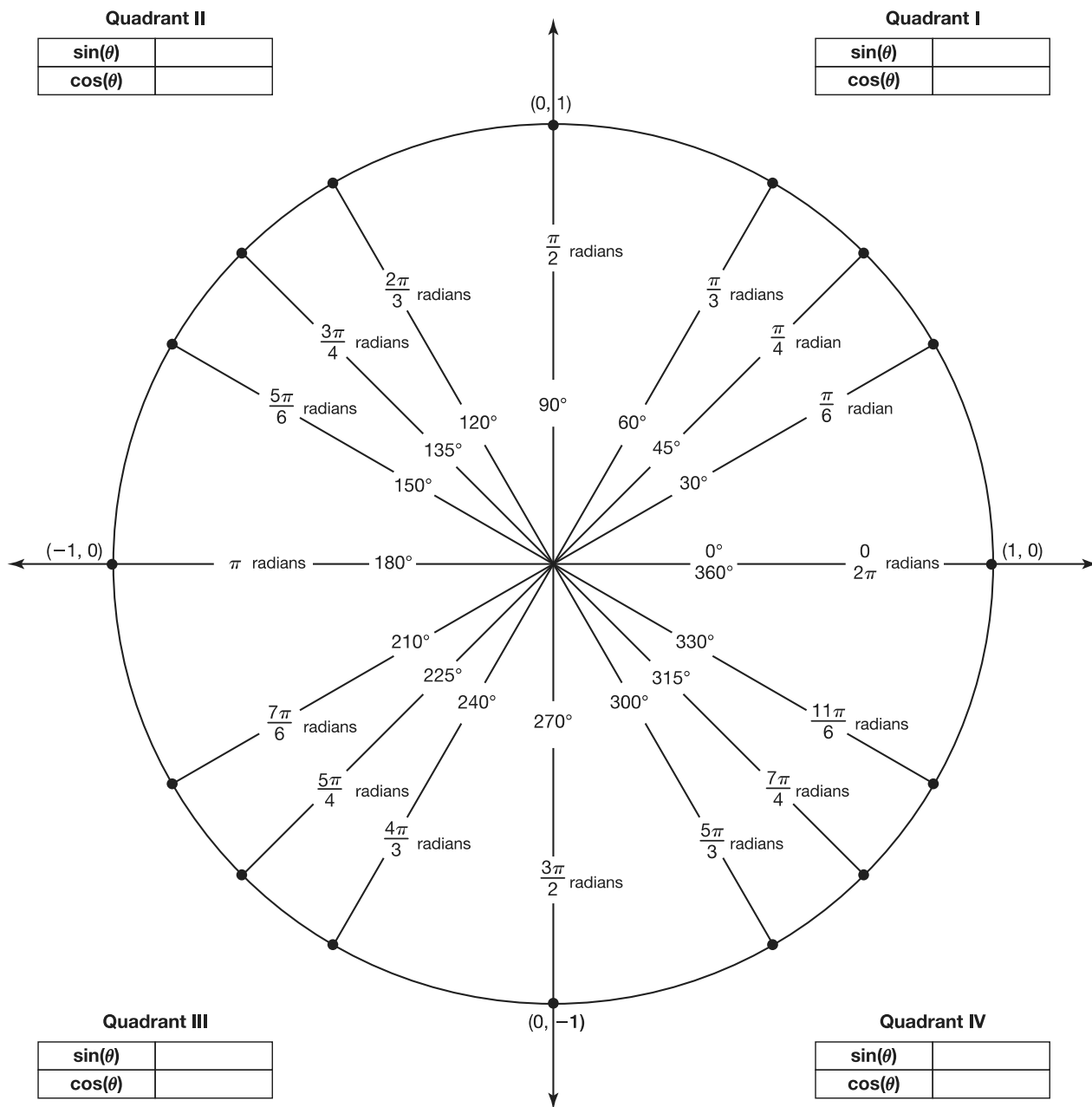


Sine and Cosine on the Unit Circle



Talk the Talk



1. Use your completed Sine and Cosine on the Unit Circle diagram from Problem 1 to complete the table.

Angle Measure (θ)		$\cos(\theta)$	$\sin(\theta)$
radians	degrees		
0	0°	1	0
$\frac{\pi}{6}$	30°		
$\frac{\pi}{4}$	45°		
$\frac{\pi}{3}$	60°		
$\frac{\pi}{2}$	90°		
$\frac{2\pi}{3}$	120°		
$\frac{3\pi}{4}$	135°		
$\frac{5\pi}{6}$	150°		
π	180°		

Angle Measure (θ)		$\cos(\theta)$	$\sin(\theta)$
radians	degrees		
$\frac{7\pi}{6}$	210°		
$\frac{5\pi}{4}$	225°		
$\frac{4\pi}{3}$	240°		
$\frac{3\pi}{2}$	270°		
$\frac{5\pi}{3}$	300°		
$\frac{7\pi}{4}$	315°		
$\frac{11\pi}{6}$	330°		
2π	360°		

2. Compare and contrast the functions $y = \sin(x)$ and $y = \cos(x)$. Describe the similarities and differences between the two functions.