

**REVIEW**

**Draw a reference triangle and find the EXACT RATIO of the trig function indicated.**

1.  $\sec \theta$

2.  $\sin \theta$  for  $(-4, 6)$

3. Given  $\csc \theta = \frac{25}{7}$  where  $\frac{\pi}{2} < \theta < \pi$ .  
Find  $\tan \theta$ .

**WITHOUT USING THE UNIT CIRCLE OR TABLE!**

**Find the exact value.** | **If  $0^\circ \leq \theta \leq 360^\circ$ , then find  $\theta$**

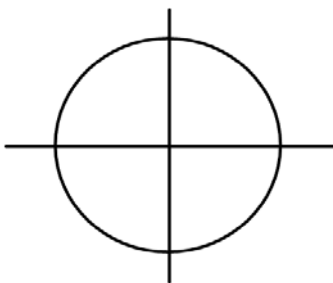
4.  $\sin 60^\circ$

5.  $\cos\left(-\frac{5\pi}{4}\right)$

6.  $\sin \theta = \frac{\sqrt{2}}{2}$

7.  $\cos \theta = -\frac{1}{2}$

8. Find all six trig functions. Fill in the table. **WITHOUT USING THE UNIT CIRCLE OR TABLE!**



radians	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$
$\frac{4\pi}{3}$						

**USE THE UNIT CIRCLE AND TABLE!**

**Use the table to find the EXACT value.** | **Use the table to find the angle where  $0^\circ \leq \theta \leq 360^\circ$ .**

9.  $\sec 300^\circ$

10.  $\sin \frac{5\pi}{4}$

11.  $\cos \theta = -\frac{\sqrt{2}}{2}$

12.  $\csc \theta = -2$

**Round to the nearest hundredth!**

**Find the APPROXIMATE value.** | **APPROXIMATE each angle where  $0^\circ \leq \theta \leq 360^\circ$ .**

13.  $\csc 70^\circ$

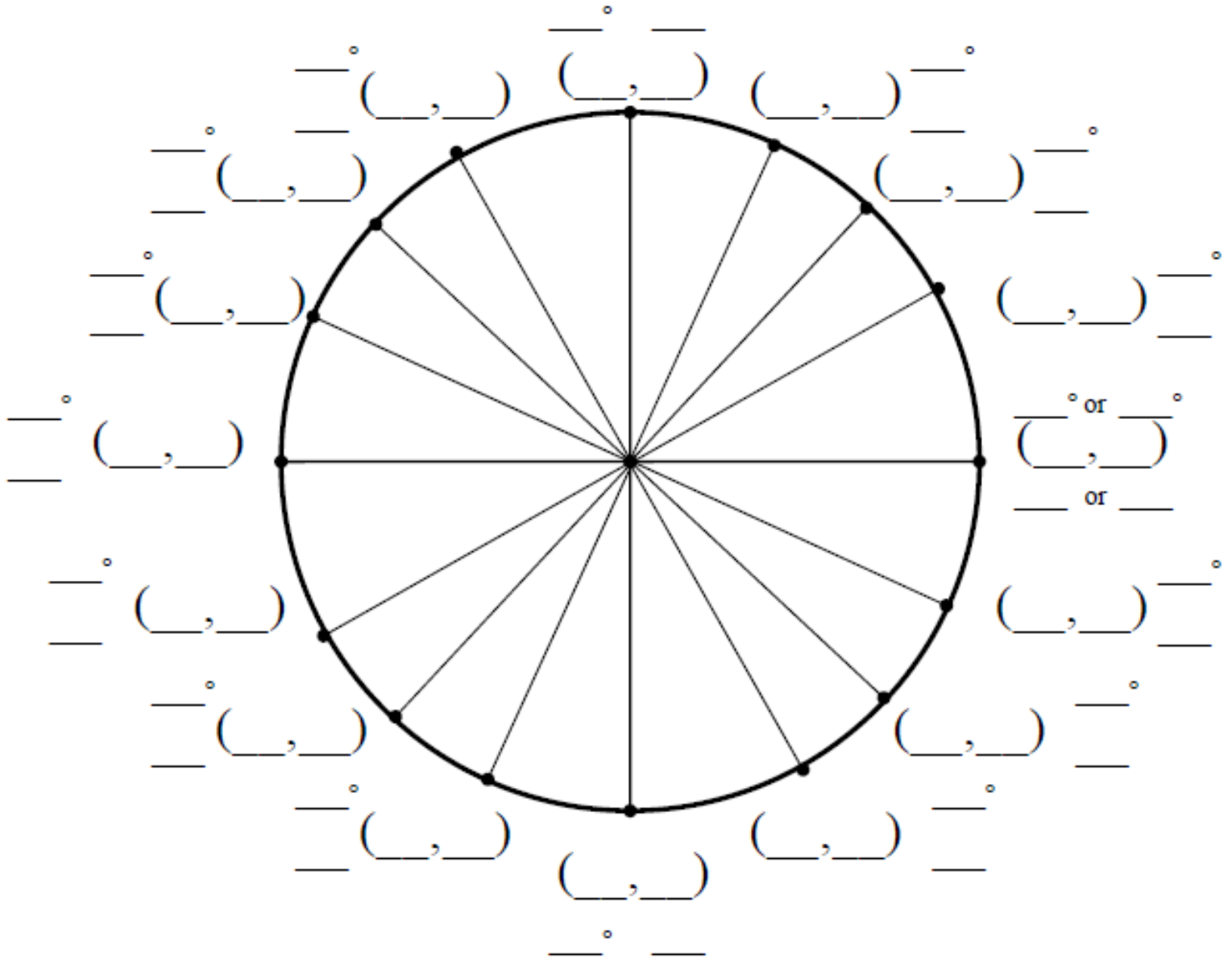
14.  $\cot(-115^\circ)$

15.  $\cos \theta = -0.848048$

16.  $\csc \theta = 1.72$

# APPLICATION

Fill in every angle measure in degrees, radians, and give the coordinates of the point on the unit circle.



Fill in the missing parts of the table.

degrees	radians	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$	- degree	- radian
	$\frac{\pi}{3}$								
		$\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$						
								$-120^\circ$	
			$-1$						