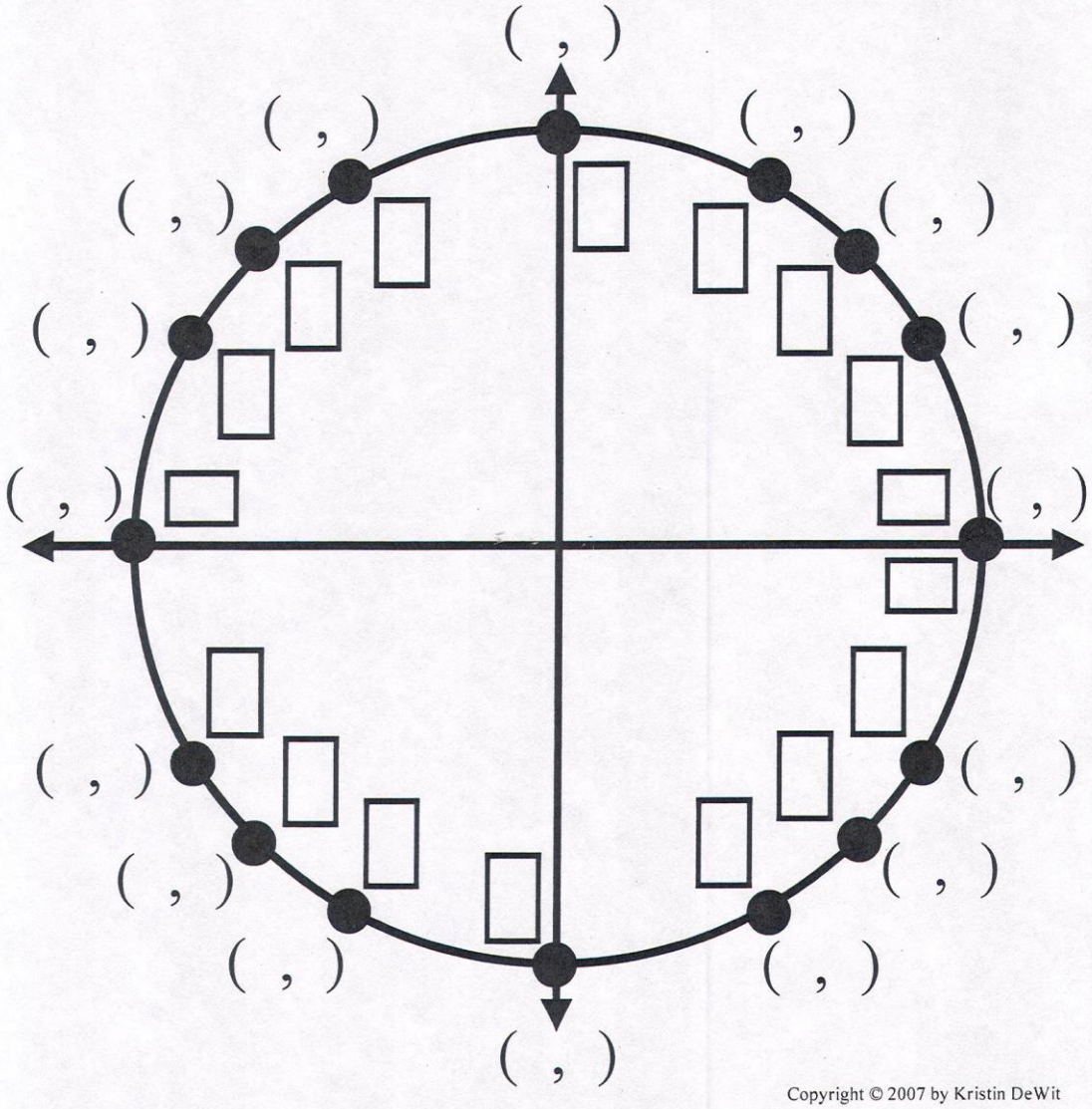
FACEing MATH™ PRESENTS... Name: _____

The Unit Circle

Use your hand-made unit circle to help you complete the following unit circle. In the rectangles, list the angle in radian measure. In the parenthesis, list the corresponding (x, y) coordinates.

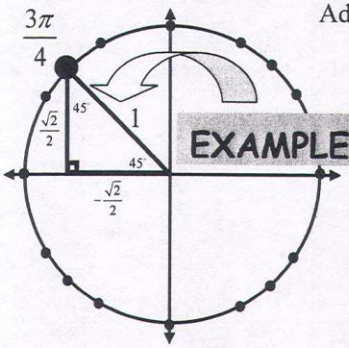


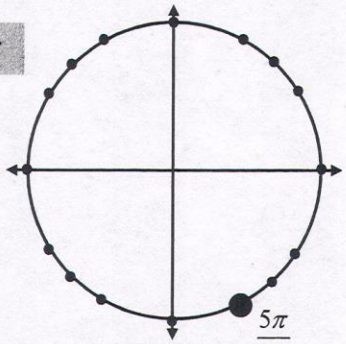
FACEing MATH™ PRESENTS...

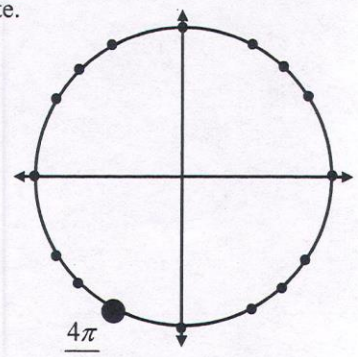
Name: _____

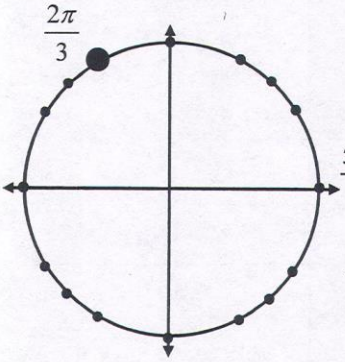
My Hand-Made Unit Circle

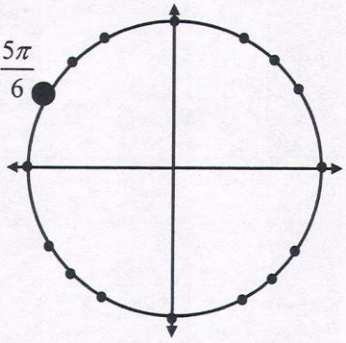
Directions: Using ONLY your hand-made UNIT CIRCLE, **DRAW** and **LABEL** the appropriate special right triangles that correspond to the given radian measures. Make sure the RIGHT ANGLE on your triangles are lined up with the X-AXIS!!! Add negative signs when appropriate.

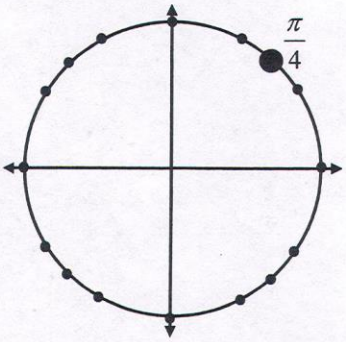


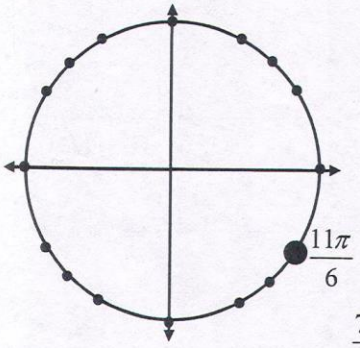


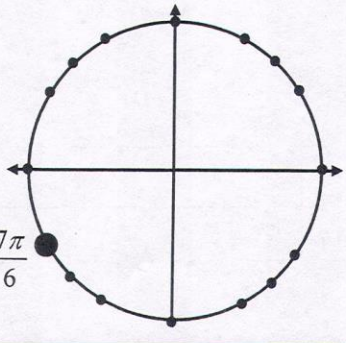


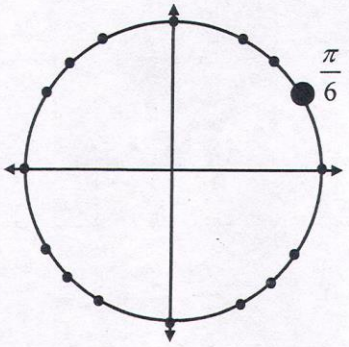












FACEing MATH™ PRESENTS...

Name: _____

My Hand-Made Unit Circle

Directions: Using ONLY your hand-made UNIT CIRCLE, complete the table below. DO NOT use a CALCULATOR.

(There may be more than one solution to certain rows. You only need to list one of the possibilities, NOT all of them.)

ANGLE in RADIANS	ANGLE in DEGREES	COS θ	SIN θ	COORDINATE (x, y)	POSITIVE COTERMNAL ANGLE	NEGATIVE COTERMINAL ANGLE	QUADRANT # or AXIS
$\frac{\pi}{6}$	30°	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$	390°	-330°	I
				$\left(\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$			
	45°						
						-90°	
$\frac{5\pi}{4}$							
		$\frac{\sqrt{2}}{2}$					
			$-\frac{\sqrt{3}}{2}$				
$\frac{11\pi}{6}$							
		$-\frac{\sqrt{2}}{2}$					
					360°		
$\frac{\pi}{2}$							
	180°						
							III
			$\frac{1}{2}$				
$\frac{2\pi}{3}$							
							IV