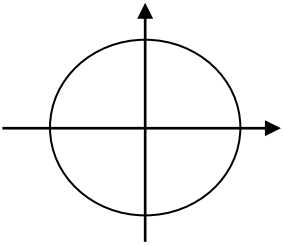
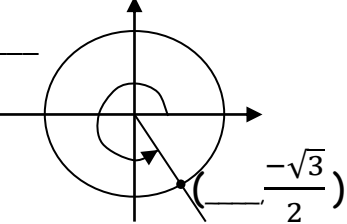
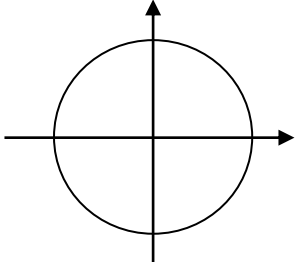
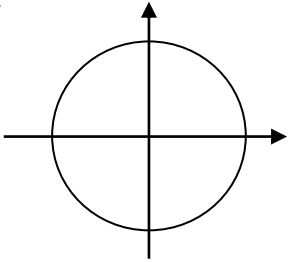


Names \_\_\_\_\_

**Group Work 1: Standard Angles—Fill in the Blanks**

You're given a clue about each standard angle. Fill in the missing parts – blanks for parts a) thru f) – using exact values in the form of simplified radicals, fractions, or whole numbers - **no decimals**. This is worth 24 points (1/2 point per blank).

- When necessary: write the angle measure,  $\theta$ , in **both radian and degrees** using only the standard angles in the intervals  $[0, 2\pi)$  and  $[0^\circ, 360^\circ)$ ;
- Identify the measure of the reference angle,  $\bar{\theta}$ , in **degrees**, do not draw it;
- **Clearly draw the standard angle in standard position – see b);**
- Label the ordered pair representing the point of intersection with the terminal side of the angle and the given unit circle (like in part b).

<p>a)</p> <p><math>\theta = \frac{5\pi}{4} =</math> _____</p> <p><math>\bar{\theta} =</math> _____</p> <p>(_____, _____)</p> <p><math>\sin \theta =</math> _____, <math>\cos \theta =</math> _____, <math>\tan \theta =</math> _____</p> 	<p>b)</p> <p><math>\theta =</math> _____ = _____</p> <p><math>\bar{\theta} =</math> _____</p> <p>(_____, _____)</p> <p><math>\sin \theta =</math> _____, <math>\cos \theta =</math> _____, <math>\tan \theta =</math> _____</p> 
<p>c) <math>\theta_c = -510^\circ</math> is coterminal with which standard angle?</p> <p><math>\theta =</math> _____ = _____</p> <p><math>\bar{\theta} =</math> _____</p> <p>(_____, _____)</p> <p><math>\sin \theta =</math> _____, <math>\cos \theta =</math> _____, <math>\tan \theta =</math> _____</p> 	<p>d) <math>\theta =</math> _____ = _____</p> <p><math>\bar{\theta} =</math> _____</p> <p>(_____, _____)</p> <p><math>\sin \theta = 1</math>, <math>\cos \theta = 0</math>, <math>\tan \theta =</math> _____</p> 

MORE ON THE BACK!

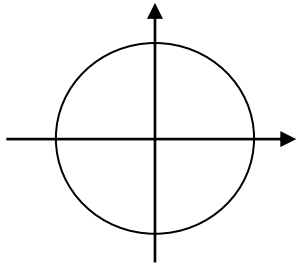
e)  $\sin \theta > 0$

$\theta = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

$\bar{\theta} = \underline{\hspace{1cm}}$

(      ,       )

$\sin \theta = \underline{\hspace{1cm}}$ ,  $\cos \theta = \frac{-\sqrt{2}}{2}$ ,  $\tan \theta = \underline{\hspace{1cm}}$



f)  $\theta = \underline{\hspace{1cm}} = 30^\circ$

$\bar{\theta} = \underline{\hspace{1cm}}$

(      ,       )

$\sin \theta = \underline{\hspace{1cm}}$ ,  $\cos \theta = \underline{\hspace{1cm}}$ ,  $\tan \theta = \underline{\hspace{1cm}}$

