Name:_____ **Handout October 18**

1. (4 points) Answer the following as True or False. (Write out the whole word – if I can't read it I'll assume it's wrong.)

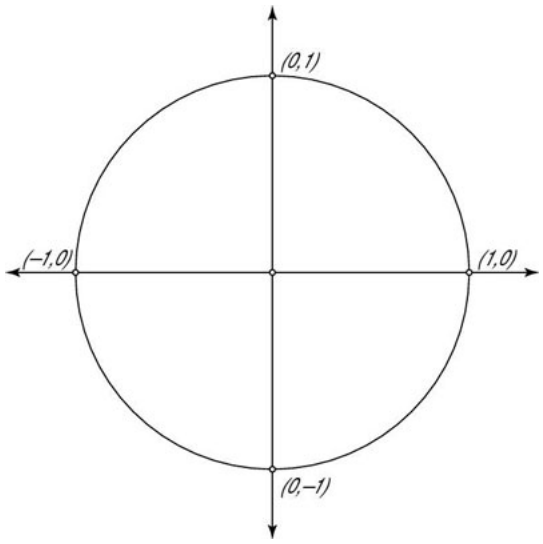
   (a) _____ Angles can be positive or negative or zero.

   (b) _____ The area of a sector, $A(\theta)$, is a quadratic function.

   (c) _____ The domain of $\sec(\theta)$ is $(-\infty, \infty)$.

   (d) _____ The function $\sec(\theta)$ is an odd function.

2. (1 Point) On the circle below, draw the terminal side of $13\pi/4$ rad in standard position.



3. (2 points) Which of the following are points on the unit circle? (Circle all that are.)

   $(1.5, -0.5)$ $(0.6, -.8)$ $(-1/2, -\sqrt{3}/2)$ $(0.5, 0.5)$

4. (3 points) There's an angle θ, and I don't know what it is. I know that $\sin(\theta) = -0.4$, and $\cos(\theta)$ is positive.

   (a) What quadrant does the terminal side of θ lie in?

   (b) Evaluate all trig functions of θ:

   $\sin(\theta)$ $\csc(\theta)$

   $\cos(\theta)$ $\sec(\theta)$

   $\tan(\theta)$ $\cot(\theta)$

(Extra credit on back)

5. (+2 Extra Credit) The acronym "All Students Take Calculus" is used to remember which trigenometric functions are positive in which quadrant. Come up with your own acronym to remember this.