

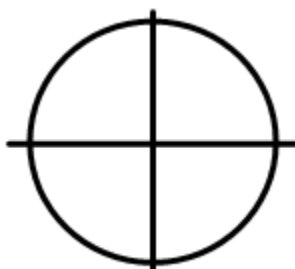
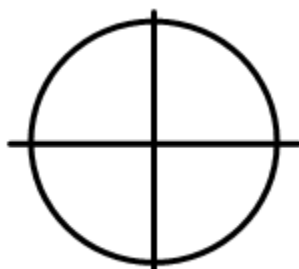
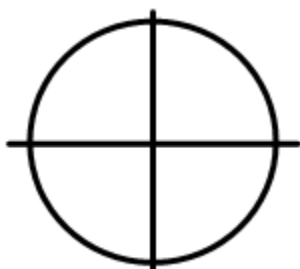
Show all work. You may collaborate on this first homework/quiz. Henceforth, Quizzes will be in-class and on your own (and shorter). Homework will be accessed thru the website.

1. Sketch each angle in standard position (2 per sketch):

a. $\frac{\pi}{3}, -\frac{5\pi}{6}$

b. $\frac{\pi}{4}, -\frac{3\pi}{2}$

c. $\frac{2\pi}{3}, -\frac{3\pi}{4}$



2. Convert each of the angles, above into degrees:

a. $\frac{\pi}{3}, -\frac{5\pi}{6}$

b. $\frac{\pi}{4}, -\frac{3\pi}{2}$

c. $\frac{2\pi}{3}, -\frac{3\pi}{4}$



3. Determine two angles that are coterminal with $\frac{2\pi}{3}$, one positive and one negative.

4. Convert the angle to radians:

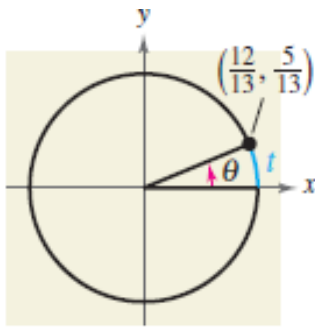
a. 45°

b. -48.27°

c. $85^\circ 18' 30''$

5. Determine the value of the 6 trig functions:

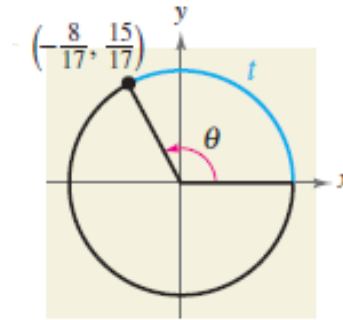
a.



$\sin t$ $\csc t$

$\cos t$ $\sec t$

$\tan t$ $\cot t$



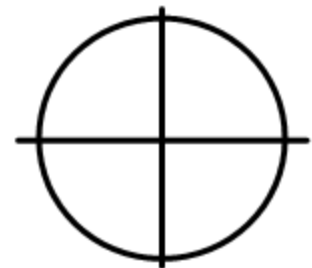
b.

$\sin t$ $\csc t$

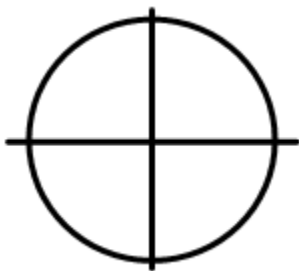
$\cos t$ $\sec t$

$\tan t$ $\cot t$

6. Find the point (as an ordered pair) on the unit circle that corresponds to $t = \frac{5\pi}{3}$.



7. Evaluate (if possible), the six trigonometric functions of $t = -\frac{3\pi}{2}$



$\sin t$ $\csc t$

$\cos t$ $\sec t$

$\tan t$ $\cot t$

8. If $\sin(t) = \frac{\sqrt{5}}{7}$, what is $\sin(-t)$? What is $\cos(t)$? What is $\cos(-t)$?

