

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Unit Assessment 6 Group  
**CALCULATORS ALLOWED**

**Solving Right Triangles**

1. Write ALL SIX trig ratios for the given angle,  $\theta$ .

$\sin \theta =$

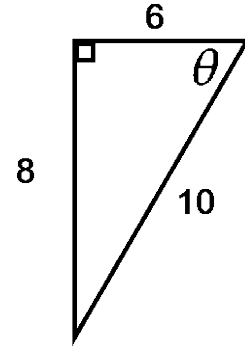
$\csc \theta =$

$\cos \theta =$

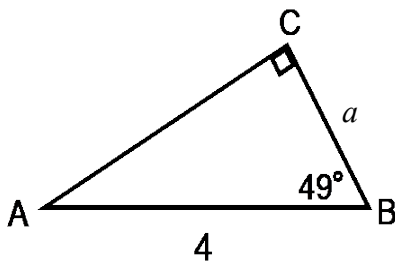
$\sec \theta =$

$\tan \theta =$

$\cot \theta =$



2. Find side  $a$ . Round answers to the nearest tenth.



**Radians and Angles**

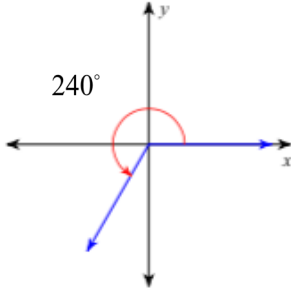
*Find a positive co-terminal angle for the given angle:*

3.  $-300^\circ$

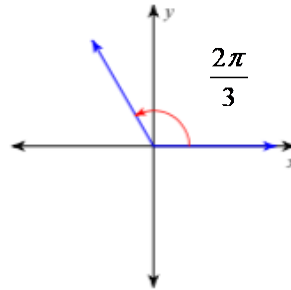
4.  $\frac{3\pi}{4}$

Find the reference angle for the given angle.

5.



6.



### Unit Circle Trig

Find the exact value of each trigonometric function.

7.  $\tan \frac{\pi}{2} =$

8.  $\cot \frac{5\pi}{3} =$

9.  $\cos \frac{\pi}{3} =$

10.  $\sec \frac{\pi}{6} =$

11.  $\sin \frac{17\pi}{6} =$

12.  $\csc \left( -\frac{\pi}{3} \right) =$