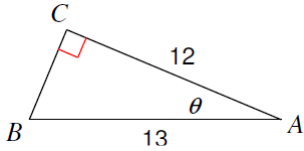


### Classwork 17.1

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Pd: \_\_\_\_\_

1. Given the following triangle. Find  $\sin \theta =$



Given  $\cot \theta = \frac{1}{2}$ , find the following trig ratios:

2.  $\cos \theta =$

3.  $\csc \theta =$

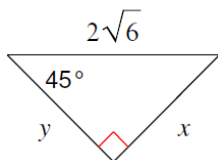
4. The angle of elevation of the sun is  $68^\circ$  when a tree casts a shadow 14.3 m long.

A) Draw a diagram that represents the situation.

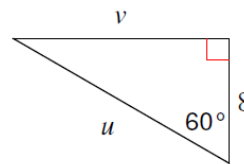
B) Set up a trig equation to solve for the height of the tree based on the given information.

Find the missing sides of each right Triangle:

5.



6.



Name a positive and negative angle that is co-terminal to the given:

7.  $\frac{7\pi}{4}$

8.  $-200^\circ$

What is the reference angle for the following?

9.  $223^\circ$

10.  $-269^\circ$

11.  $\frac{13\pi}{3}$

12.  $\frac{17\pi}{12}$