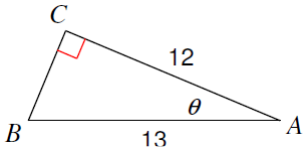
Classwork 17.1-17.2

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. $\csc\theta =$

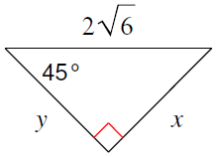
4. The angle of elevation of the sun is 68° when a tree casts a shadow 14.3 m long.

A) Draw a diagram that represents the situation.

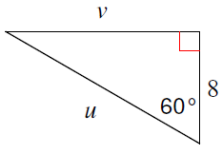
B) Set up a trig equation to solve for the height of the tree based on the given information. Your answer should be calculator ready.

Find the missing sides of each right Triangle:

5.



6.



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

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

8. -200°

What is the reference angle for the following?

9. -269°

10. $\frac{31\pi}{12}$

Identify the following trig function values:

11. tan 90°

12. csc 120°

13. cot 300°

14. sec -60°

15. sec $\frac{5\pi}{4}$

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

17. sin 45°cos210°

18. tan $\frac{5\pi}{3}$ cot $\frac{2\pi}{3}$

19. $\frac{\sin^2 210^\circ \csc 300^\circ}{\sec 240^\circ}$