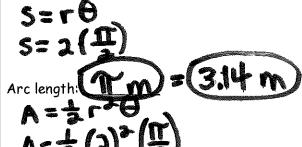
## 9.1-9.2 Quiz Review Algebra 2 with Trigonometry

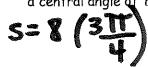
Find the arc length and the area of the sector with:

1. A radius of 2 meters and a central angle of  $\theta = \frac{\pi}{2}$ 



Area of the sector 18 31

2. A radius of 8 feet and a central angle of  $\theta = 135^{\circ}$ 

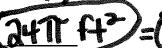


0=03.II 1804 0= II

Arc length: 67 ft = (8.85 ft

A= ま(8)と(型)

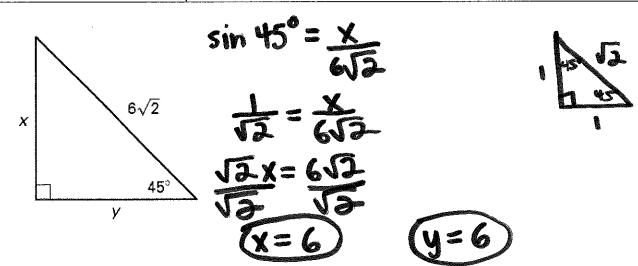
Area of the sector



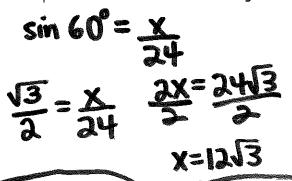
75.40H²

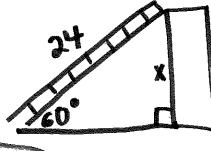
Find the exact values of x and y.

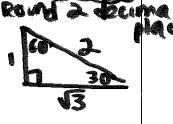
3.

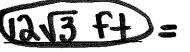


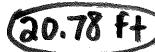
4. A stepladder has an angle of elevation 60° with the front of the house. The length of the stepladder is 24 feet. At what height does the stepladder meet the house?











Let  $\theta$  be an acute angle of a right triangle. Find the value of the other five trigonometric functions

of 
$$\theta$$
. Leave your answers in simplest radical form.

5.  $\tan \theta = 3$ 

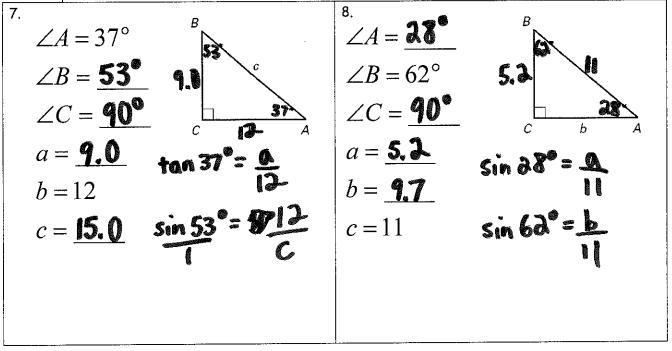
6.  $\cos \theta = \frac{4}{7}$ 

10 = C

 $\sin \theta = \frac{3}{3}$ 

6.  $\cos \theta = \frac{4}{7}$ 
 $\cos \theta = \frac{1}{4}$ 
 $\cos \theta = \frac$ 

Solve  $\triangle ABC$  using the diagram at the right and the given measurements. Round your answers to one decimal place.

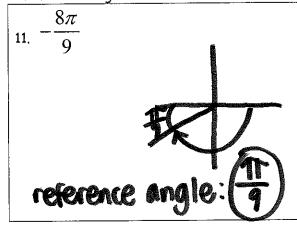


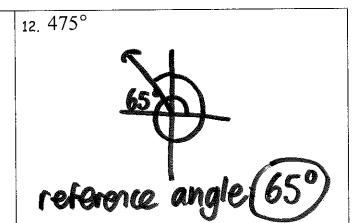
Find one positive angle and one negative angle that is coterminal with the given angle.

10. 75° **±360**°

Positive angle: 435 (degrees)

Sketch the angle. Then find its reference angle.





Evaluate the six trigonometric functions of the angle heta. Leave your answers in simplest radical form.

