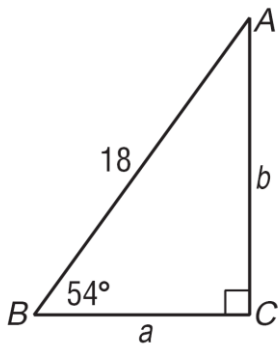


Unit 9 Review (Trig)

Name _____ Hr. _____

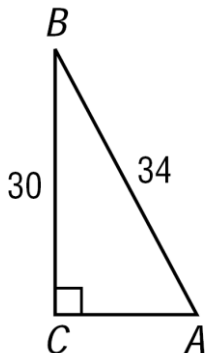
Show ALL work for each problem.

1. Solve the triangle. Round measures of sides to the nearest tenth and measures of angles to the nearest degree.



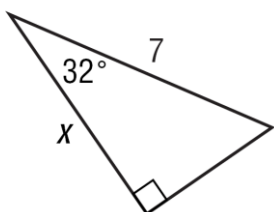
1. $m\angle A =$ _____
 $a =$ _____
 $b =$ _____

2. Solve the triangle. Round measures of sides to the nearest tenth and measures of angles to the nearest degree.



2. $m\angle A =$ _____
 $m\angle B =$ _____
 $b =$ _____

3. Write an equation involving sine, cosine, or tangent that can be used to find x . Then solve the equation, rounding to the nearest degree.



3. Equation: _____
 $x =$ _____

Algebra 2A

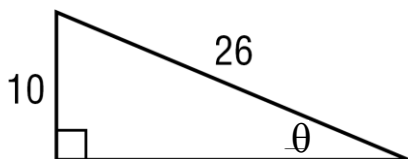
4. From the top of a cliff, a geologist spots a dry riverbed. The measurement of the angle of depression to the riverbed is 70° . The cliff is 50 meters high. How far is the riverbed from the base of the cliff?

4. _____

5. From a lookout point on a cliff above a lake, the angle of depression is 12° . The boat is 3 kilometers from the shore just below the cliff. What is the height of the cliff from the surface of the water to the lookout point?

5. _____

6. Find the **exact value** of the six trigonometric functions for θ shown in the figure below.



$\sin \theta =$ _____

$\csc \theta =$ _____

$\cos \theta =$ _____

$\sec \theta =$ _____

$\tan \theta =$ _____

$\cot \theta =$ _____