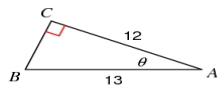
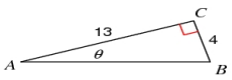
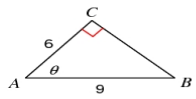
Kuta Software - Infinite Algebra 2 Name_____

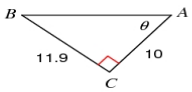
Right Triangle Trig. - Finding Missing Sides and Angles Date_____ Period____

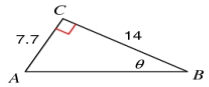
Find the measure of each angle indicated. Round to the nearest tenth.

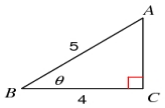
1) 

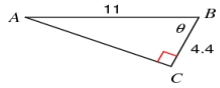
2) 

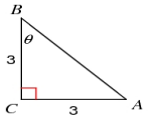
3) 

4) 

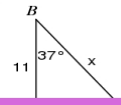
5) 

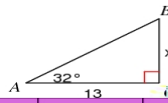
6) 

7) 

8) 

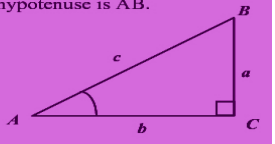
Find the measure of each side indicated. Round to the nearest tenth.

9) 

10) 

Mini-Lesson

1. ***Finding Trigonometric Ratios***:
   In △ABC, BC is the leg opposite ∠A, and AC is the leg adjacent to ∠A. The hypotenuse is AB.
   The trigonometric ratios:
   sin* A** = (length of leg opposite ∠A)/(length of hypotenuse) = ***a/c
   cos* A** = (length of leg adjacent ∠A)/(length of hypotenuse) = ***b/c
   tan* A** = (length of leg opposite ∠A)/(length of leg adjacent ∠A) = ***a/b



2. ***Example***:
   a. Use the diagram at the right. Find *sin* A, *cos* A and *tan* A.