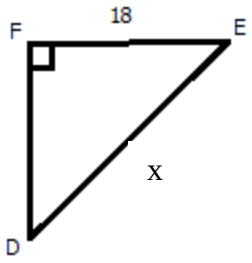
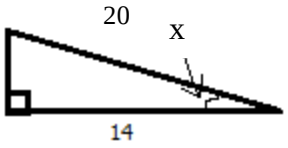
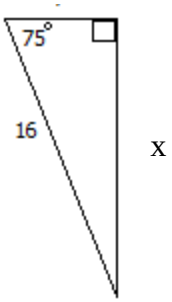
CCII-Unit 5 Review **Name**_____

Solve for the missing variable in the following triangles. Round your answers to the nearest tenths.

1) 

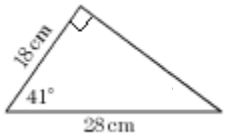
2) 

3) 

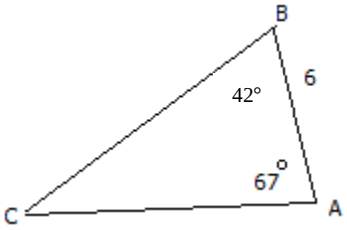
4) A park ranger is watching a bear from the top of a 14 m tower. If the angle of depression to the bear is 62°, what is the distance from the bear to the base of the tower?

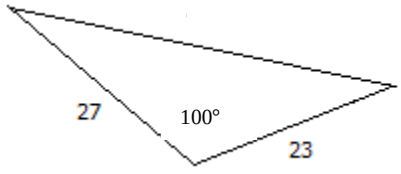
5) A girl 5.5 ft tall holds a string that is 50 ft. and is attached to a kite. If the string makes an angle of elevation of 57°, how high is the kite off of the ground? Round to the nearest tenths.

6) Find the area of the triangle at the right. Round you answer to tenths.



For problems 12-13, find all missing side lengths and angle measures in the given triangle. Round angles to whole degrees and sides to hundredths. *Label your answers for angles and sides clearly.*

7) 

8) 

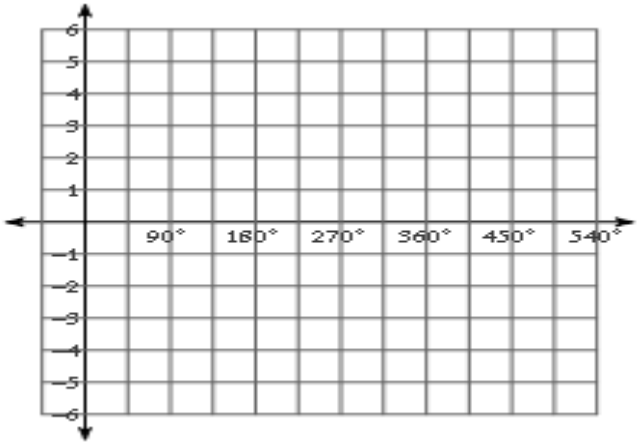
9) Determine if the triangle is acute, right or obtuse, if the sides are lengths 8, 18, 19.

10) State the amplitude, period, and midline for the following function: $y = 3\cos(x) - 1$

Amplitude: _____ Period: _____ Midline: _____

11) Graph the following trig function. Where is the graph decreasing? _____ increasing? _____positive? _____negative? _____

$y = 5\sin(x)$



12.) Write the equation for the following graph. _____

What is the amplitude? _____What is the midline? _____