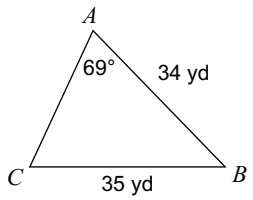
Math-3A Name_____ ID: 1

SM3-A HW #10-4 (Law of Cosines)

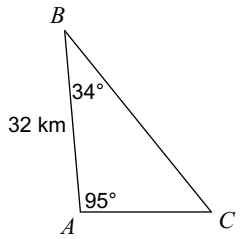
Date_____ Period____

Find each measurement indicated. Round your answers to the nearest tenth.

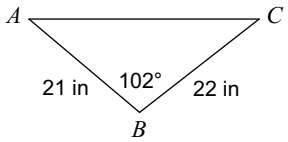
1) Find $m\angle C$



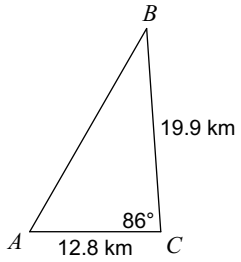
2) Find AC



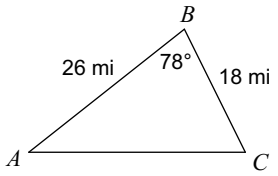
3) Find AC



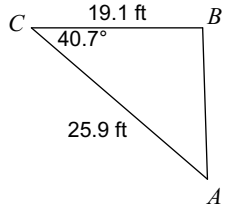
4) Find AB



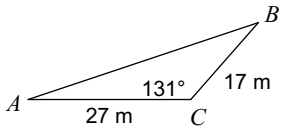
5) Find AC



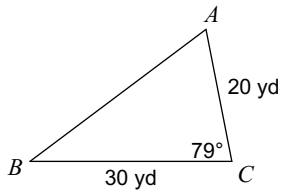
6) Find $m\angle A$



7) Find $m\angle A$



8) Find $m\angle A$



State the number of possible triangles that can be formed using the given measurements.

9) $m\angle C = 60°$, $b = 20$ km, $c = 12$ km

10) $m\angle A = 131°$, $c = 8$ m, $a = 25$ m

11) $m\angle B = 32°$, $a = 25$ yd, $b = 20$ yd

12) $m\angle B = 29°$, $a = 27$ m, $b = 24$ m

Solve each equation. Round your answers to the nearest ten-thousandth.

13) $19^{n-1} + 1 = 24$

Solve each equation.

14) $x^2 + 6x - 25 = 0$

Solve each equation. Remember to check for extraneous solutions.

15) $\frac{1}{x} = \frac{x+6}{4x} - \frac{1}{4x}$