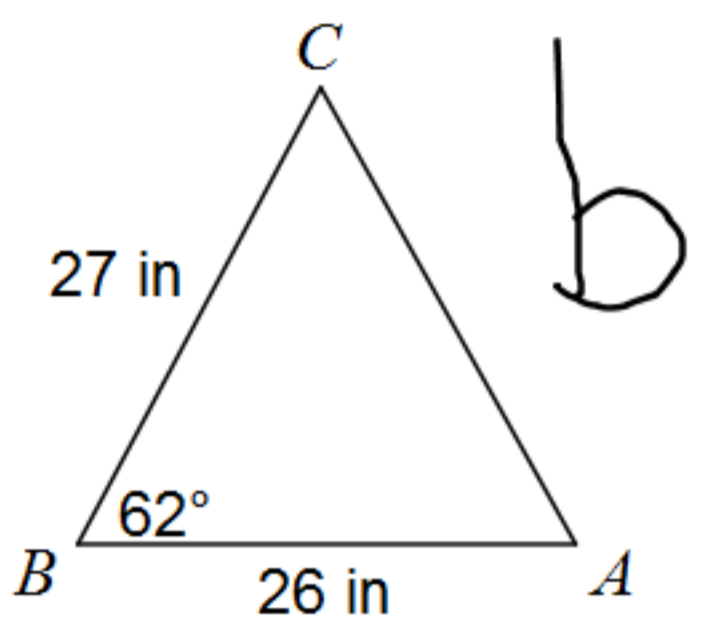


Find each measurement indicated. Round your answers to the nearest tenth.

May 20

6) Find AC



$b = 27.3 \text{ in}$

$$b^2 = a^2 + c^2 - 2ac(\cos B)$$

$$b^2 = (27)^2 + (26)^2 - 2(27)(26)(\cos 62^\circ)$$

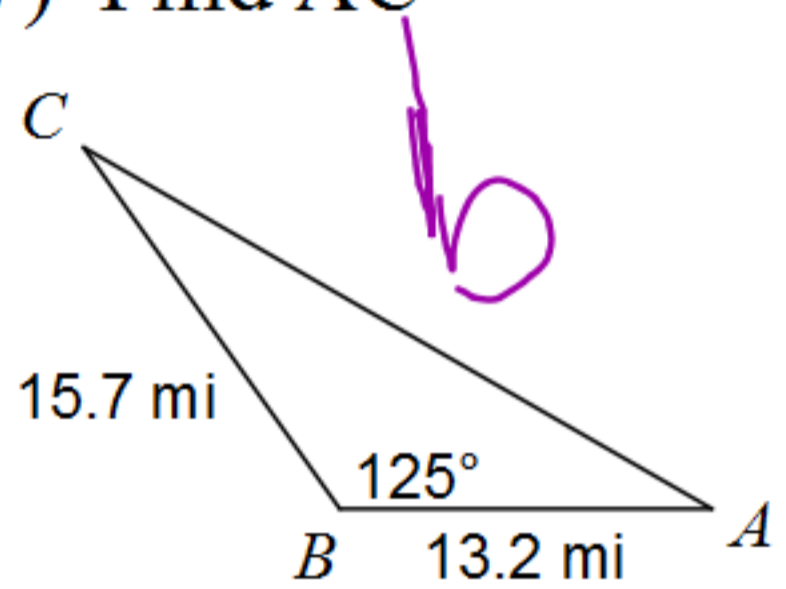
$$b^2 = 729 + 676 - 1404(0.4695)$$

$$b^2 = 1405 - 659.2$$

$$b = \sqrt{745.8} = 27.3$$

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

7) Find AC



$$b^2 = a^2 + c^2 - 2ac(\cos B)$$

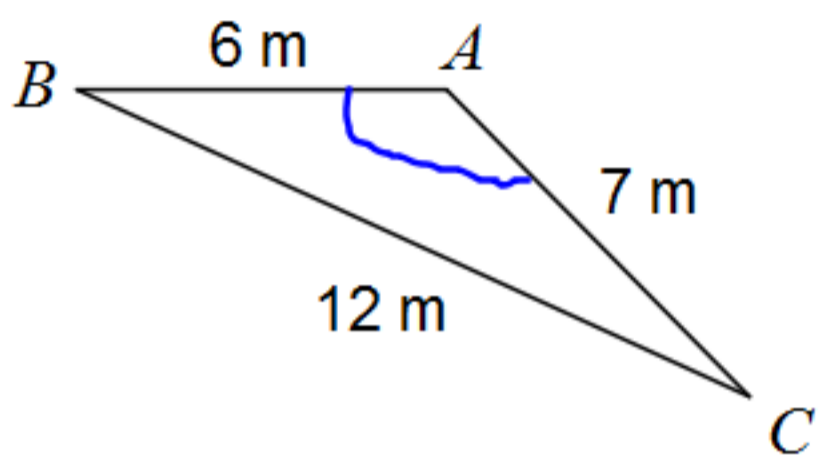
$$b^2 = 15.7^2 + 13.2^2 - 2(15.7)(13.2)(\cos 125^\circ)$$

$$b^2 = 658.5$$

$$b = 25.7 \text{ mi}$$

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

10) Find $m\angle A$



$0.7024 = \cos A$
 $134.6^\circ = A$

$$a^2 = b^2 + c^2 - 2bc(\cos A)$$

$$12^2 = 7^2 + 6^2 - 2(7)(6)(\cos A)$$

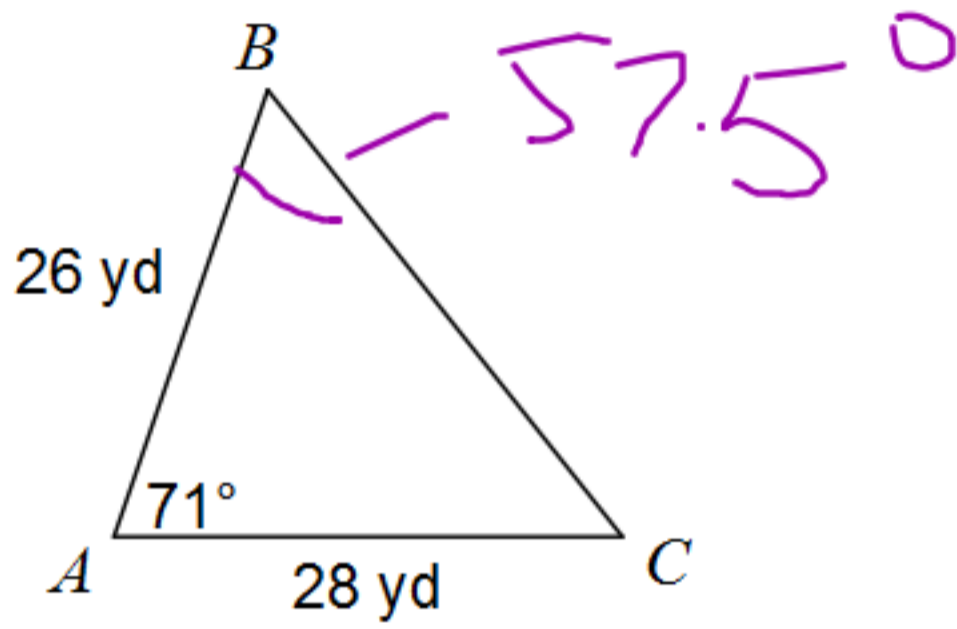
$$144 = 49 + 36 - 84(\cos A)$$

$$144 = 85 - 84(\cos A)$$

$$\begin{array}{r} 59 = -84(\cos A) \\ \underline{-84} \quad \underline{-84} \end{array}$$

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

11) Find $m\angle B$



$$\cos B = \frac{a^2 + c^2 - b^2}{2ac}$$

$$\cos B = \frac{31.4^2 + 26^2 - 28^2}{2(31.4)(26)}$$

$$a^2 = b^2 + c^2 - 2bc(\cos A) \quad \cos B = \frac{986 + 676 - 784}{1632.8}$$

$$a^2 = 28^2 + 26^2 - 2(28)(26)(\cos 71^\circ) \quad \cos B = \frac{878}{1632.8}$$

$$a^2 = 985.96$$

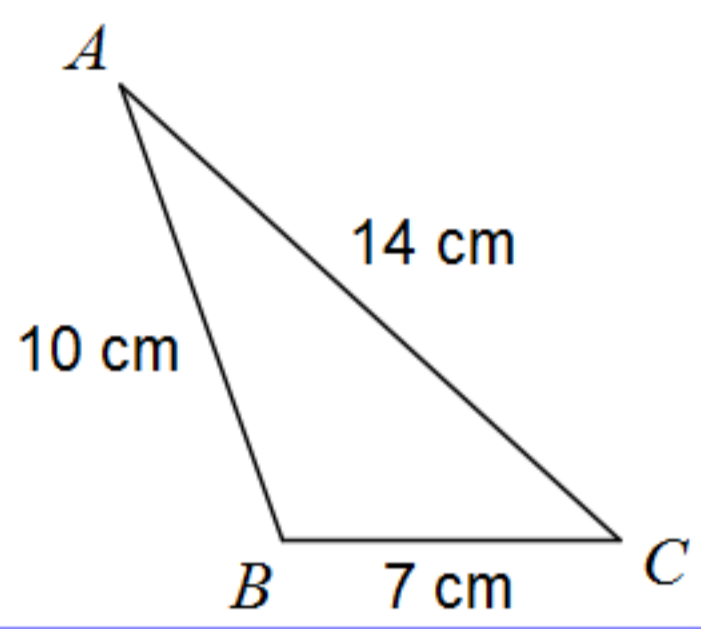
$$a = 31.4$$

$$\cos B = 0.5377$$

$$\angle B = 57.5^\circ$$

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

12) Find $m\angle A$



$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

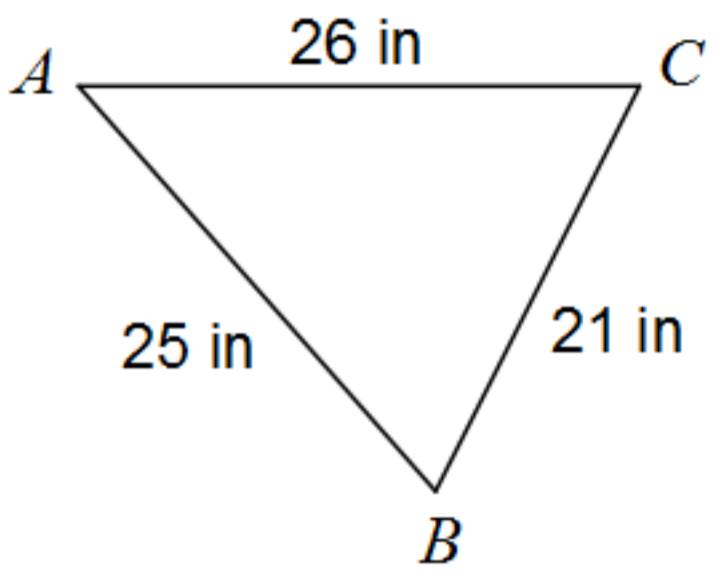
$$\cos A = \frac{14^2 + 10^2 - 7^2}{2(14)(10)}$$

$$\cos A = 0.5521$$

$$A = 28^\circ$$

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

13) Find $m\angle A$



$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

$$\cos A = \frac{26^2 + 25^2 - 21^2}{2(26)(25)}$$

Do 8, 9

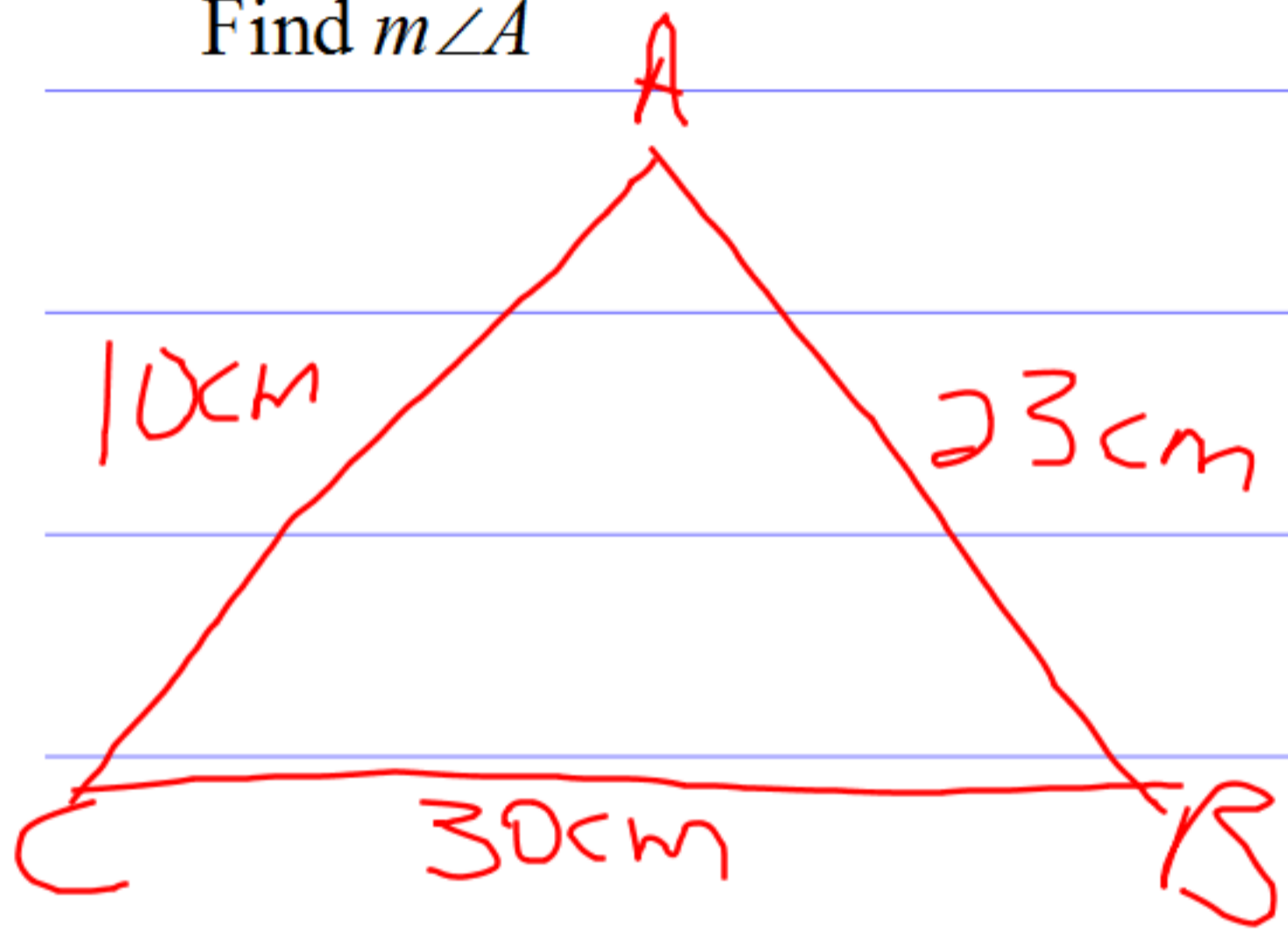
$$\cos A = 0.6615$$

$$\cos^{-1} A = 48.6^\circ$$

Solve each triangle. Round your answers to the nearest tenth.

14) $a = 30$ cm, $c = 23$ cm, $b = 10$ cm

Find $m\angle A$



$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

$$\cos A = \frac{10^2 + 23^2 - 30^2}{2(10)(23)}$$

$$\cos A = -0.5891$$

HWK: 8, 9, 15, 16

$$\angle A = 126^\circ$$