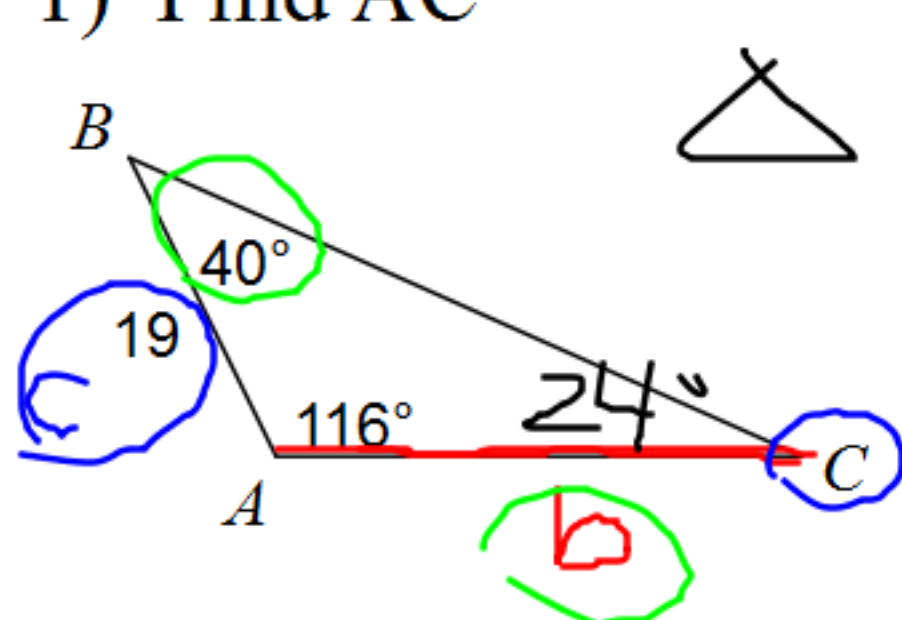




Using Sine Law, find each measurement indicated. Round your answers to the nearest tenth.

1) Find AC *or little b*

corresponding
Side / angle



$$\triangle 180^\circ$$

$$\angle C = 180 - 116 - 40$$

$$\angle C = 24^\circ$$

lower case = Unknown always goes on the
sides top right

upper case = $\frac{c}{\sin C} = \frac{b}{\sin B}$
angles

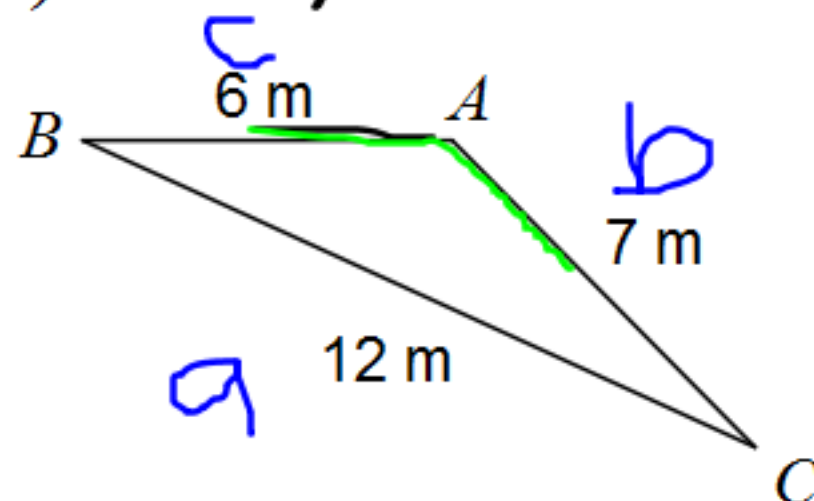
$\times \sin 40$ $\left(\frac{19}{\sin 24} \right) = \frac{b}{\sin 40}$

$b = 30.02$
 $b = 30$
units

Using Cosine Law, find each measurement indicated. Round your answers to the nearest tenth.

unknown is on the left

3) Find $m\angle A$



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

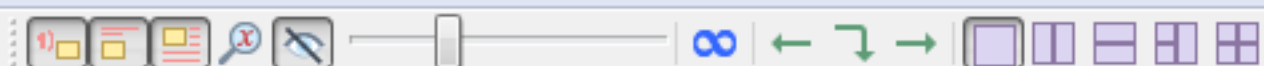
$$\cos A = \frac{7^2 + 6^2 - 12^2}{2(7)(6)}$$

$$\cos A = \frac{-59}{84}$$

$$\cos^{-1} \cos A = \cos^{-1} \frac{-59}{84}$$

$$\angle A = 134.61$$

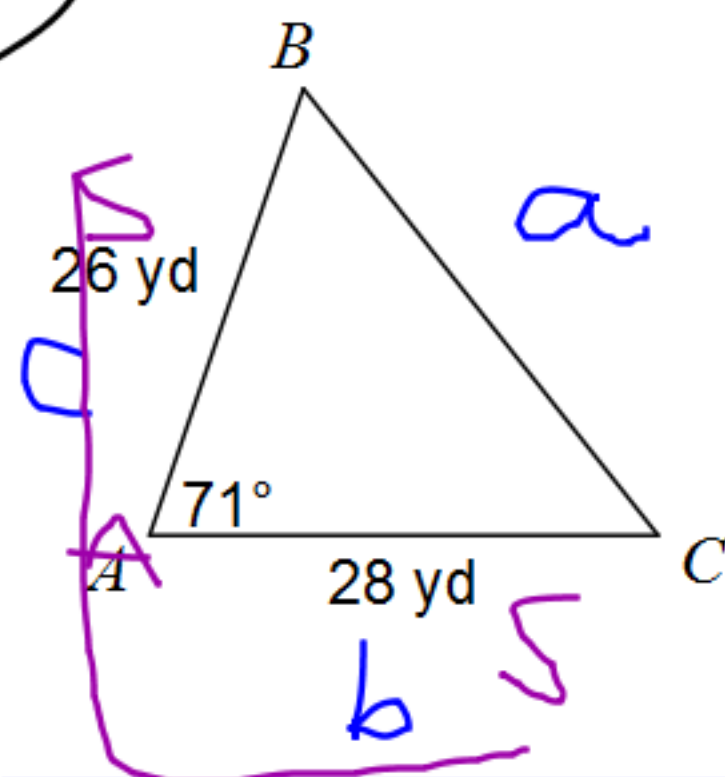
$$\angle A = 135^\circ$$



Using Cosine Law, find each measurement indicated. Round your answers to the nearest tenth.

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

4) Find $\angle B$



$$a =$$

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

$$\angle B =$$