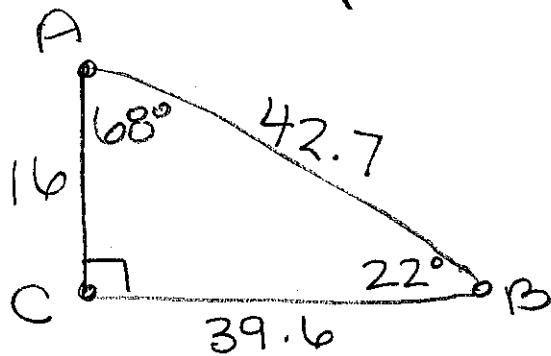


Warm-up: Solve right triangle ABC given:

$$b = 16, A = 68^\circ \text{ \& \ } C = 90^\circ$$

(round to the tenth)



$$\textcircled{1} B = 180 - 90 - 68 = \boxed{22^\circ}$$

$$\textcircled{2} \tan 22^\circ = \frac{16}{a}$$

$$a \tan 22^\circ = 16$$

$$a = \frac{16}{\tan 22^\circ}$$

$$\boxed{a = 39.6}$$

$$\textcircled{3} \sin 22^\circ = \frac{16}{c}$$

$$c \sin 22^\circ = 16$$

$$c = \frac{16}{\sin 22^\circ}$$

$$\sin 22^\circ$$

$$\boxed{c = 42.7}$$