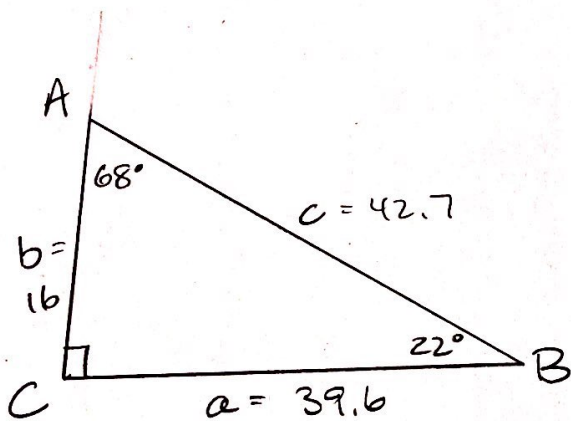


Warm Up Solve the Right Triangle

Warm-up: Solve right triangle ABC given:

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

(round to the tenth)



Angle B

$$180 - 90 - 68$$

$$= \boxed{22^\circ}$$

Side a

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

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

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

$$\boxed{a = 39.6}$$

Side c

$$\cos 22^\circ = \frac{39.6}{c}$$

$$c \cos 22^\circ = 39.6$$

$$c = \frac{39.6}{\cos 22^\circ}$$

$$\boxed{c = 42.7}$$