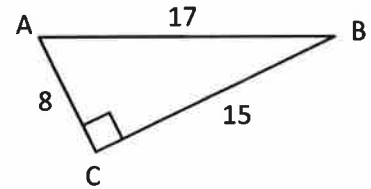


T-1 Trig Definitions

Use the given diagram to answer questions 1 and 2:



1. How long is the hypotenuse? 17

How long is the side opposite angle B? 8

How long is the side adjacent to angle B? 15

(2)

2. $\sin A = \frac{15}{17}$

$\cos B = \frac{15}{17}$

$\tan B = \frac{8}{15}$

(2)

Use trigonometry to find the missing side. Round to the nearest tenth.

3.

$$\cos 68^\circ = \frac{8}{x}$$

$$x \cdot \cos 68^\circ = 8$$

$$x = \frac{8}{\cos 68^\circ}$$

$x \approx 21.35$

$x \approx 21.4$



(3)

4.

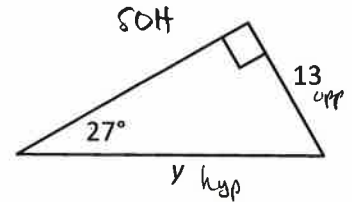
$$\sin 27^\circ = \frac{13}{y}$$

$$y \cdot \sin 27^\circ = 13$$

$$y = \frac{13}{\sin 27^\circ}$$

$y \approx 28.63$

$y \approx 28.6$



(3)