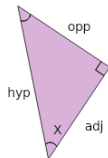


**Determine missing sides using trigonometry****1**

In trigonometry, what's the fancy name for the ratio of the adjacent side length over the hypotenuse length (adj/hyp)?



A Cosine

B Centrifugal

3

Using the mnemonic SOHCAHTOA, select the trigonometry ratio that this is the definition of

$$\frac{\text{opp}}{\text{hyp}}$$

A *Tangent*B *Sine*C *Cosine***4**

Solve for the trigonometry ratio given the values

$$\begin{aligned}\text{opp} &= 9.5 \\ \text{hyp} &= 12.4 \\ \text{adj} &= 8 \\ \tan(\sigma) &= \end{aligned}$$

A $\tan(\sigma) = 1.76$ B $\tan(\sigma) = 0.65$ C $\tan(\sigma) = 99.20$ D $\tan(\sigma) = 1.19$ E $\tan(\sigma) = 0.50$ **6**

Solve for the side indicated

$$\alpha = 50^\circ$$

$$\text{hyp} = ?$$

$$\text{adj} = 5$$

A $\text{hyp} = 9.3$ B $\text{hyp} = 10.1$ C $\text{hyp} = 7.0$ D $\text{hyp} = 5.4$ E $\text{hyp} = 4.7$ F $\text{hyp} = 7.8$ **2**

Cosine

A

$$\frac{\text{adj}}{\text{hyp}}$$

B

$$\text{adj} \times \text{hyp}$$

C

$$\text{opp} \times \text{adj}$$

D

$$\frac{\text{opp}}{\text{hyp}}$$

E

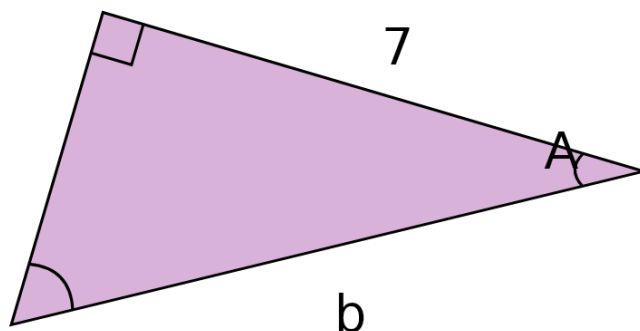
$$\text{adj} \times \text{opp}$$

F

$$\text{hyp} \times \text{hyp}$$

5

Solve for the side length in ratio form

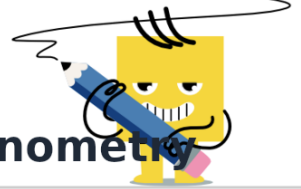


A

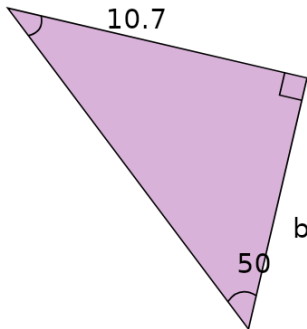
$$b = \frac{\cos(A)}{7}$$

B

$$b = \frac{7}{\cos(A)}$$

**Determine missing sides using trigonometry****7**

Solve for the side length in decimal form by calculating the trigonometric ratio



A $b = \frac{10.7}{1.19}$

B $b = \frac{1.19}{14}$

C $b = \frac{1.19}{9}$

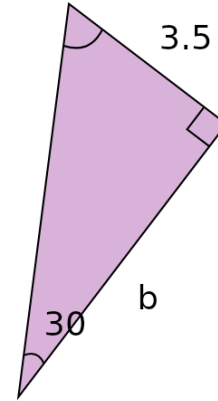
D $b = 1.19 \times 10.7$

E $b = 1.19 \times 9$

F $b = \frac{14}{1.19}$

8

Solve for the side length with trigonometry



A $b = 7.3$

B $b = 5.5$

C $b = 6.7$

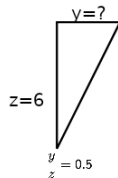
D $b = 6.1$

E $b = 4.2$

F $b = 3.6$

9

Solve for the length of line y



A $y = 2$

B $y = 8$

C $y = 4$

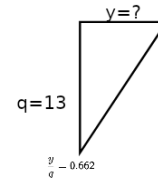
D $y = 3$

E $y = 6$

F $y = 9$

10

Solve for the length of line y



A $y = 8.7$

B $y = 7.2$

C $y = 8.6$

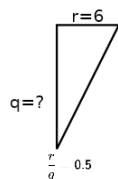
D $y = 9.6$

E $y = 10.1$

F $y = 17.3$

11

Solve for the length of line q



A $q = 8$

B $q = 12$

C $q = 2$

D $q = 14$

E $q = 4$

F $q = 10$

12

Solve for the side indicated

$\sigma = 45^\circ$

$opp = 11$

$adj = ?$

A $adj = 15.4$

B $adj = 12.1$

C $adj = 13.2$

D $adj = 8.8$

E $adj = 7.7$

F $adj = 11.0$