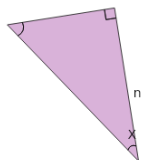




Select an appropriate trigonometric ratio

1

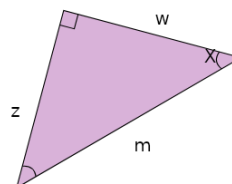
In trigonometry, what's the fancy name for the side labeled 'n' that is the nearest leg to angle 'X'?



- A Amethyst B Adjacent C Actual D Alternative

2

Which side would be the Adjacent with respect to angle 'X'?



- A z B m C w

3

cah

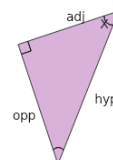
A $\cos = \frac{adj}{hyp}$ B $\tan = adj \times opp$

C $\cos = \frac{adj}{adj}$ D $\tan = \frac{adj}{adj}$

E $\cos = \frac{opp}{opp}$ F $\cos = \frac{hyp}{opp}$

4

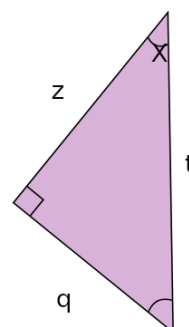
In trigonometry, what's the fancy name for the ratio of the opposite side length over the hypotenuse length (opp/hyp)?



- A Sine B Scalar C Shortened D Sophomore

5

What would the ratio of opposite over hypotenuse be with respect to angle 'X'?



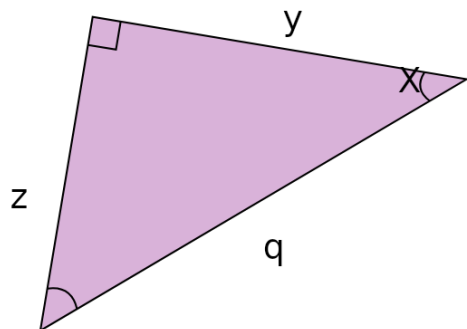
- A $\frac{t}{q}$ B $\frac{z}{q}$
C $\frac{z}{t}$ D $\frac{q}{t}$
E $\frac{q}{z}$ F $\frac{t}{z}$

6

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

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

- A Sine
B Tangent
C Cosine

**Select an appropriate trigonometric ratio****7**What would side z over q be called with respect to angle 'X'?

A $\frac{\text{opposite}}{\text{hypotenuse}}$

B $\frac{\text{adjacent}}{\text{hypotenuse}}$

C $\frac{\text{opposite}}{\text{adjacent}}$

D $\frac{\text{hypotenuse}}{\text{opposite}}$

E $\frac{\text{adjacent}}{\text{opposite}}$

F $\frac{\text{hypotenuse}}{\text{adjacent}}$

8

Tangent

A

$adj \times adj$

B

$adj \times opp$

C

$\frac{adj}{adj}$

D

$\frac{adj}{hyp}$

E

$opp \times hyp$

F

$\frac{opp}{adj}$

9

Solve for the trigonometry ratio given the values

$$\begin{aligned} adj &= 8 \\ hyp &= 13.9 \\ opp &= 11.4 \\ \cos(\beta) &= \end{aligned}$$

A $\cos(\beta) = 0.22$

B $\cos(\beta) = 0.58$

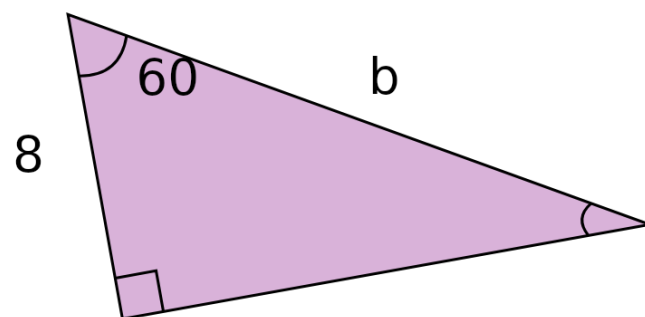
C $\cos(\beta) = 129.04$

D $\cos(\beta) = 0.85$

E $\cos(\beta) = 0.89$

10

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



A

$b = \frac{8}{0.50}$

B

$b = \frac{0.50}{13.9}$

C

$b = 0.50 \times 16$

D

$b = \frac{0.50}{8}$

E

$b = \frac{13.9}{0.50}$

11

Solve for the side indicated

$$\begin{aligned} \alpha &= 35^\circ \\ opp &= 6.3 \\ adj &= ? \end{aligned}$$

A $adj = 9.9$

B $adj = 6.3$

C $adj = 9.0$

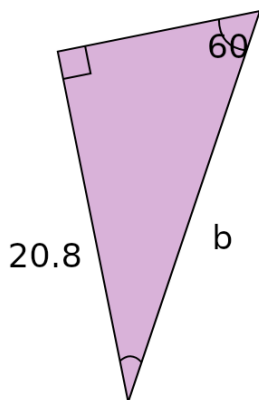
D $adj = 8.1$

E $adj = 7.2$

F $adj = 5.4$

**Select an appropriate trigonometric ratio****12**

Solve for the side length with trigonometry



A

$$b = 28.8$$

B

$$b = 14.4$$

C

$$b = 31.2$$

D

$$b = 24.0$$

E

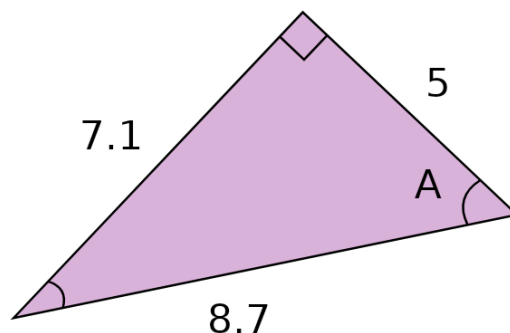
$$b = 21.6$$

F

$$b = 26.4$$

13

Solve for the trigonometric ratio in fraction form



A

$$\sin(A) = \frac{7.1}{8.7}$$

B

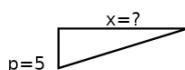
$$\sin(A) = 8.7 \times 8.7$$

C

$$\sin(A) = 5 \times 8.7$$

14

Solve for the length of line x



$$\frac{x}{p} = 3.26$$

A $x = 10.9$

B $x = 7.2$

C $x = 2.8$

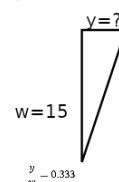
D $x = 16.3$

E $x = 6.1$

F $x = 18.1$

15

Solve for the length of line y



A $y = 11$

B $y = 6$

C $y = 0$

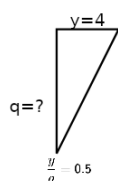
D $y = 12$

E $y = 4$

F $y = 5$

16

Solve for the length of line q



A $q = 0$

B $q = 2$

C $q = 5$

D $q = 12$

E $q = 3$

F $q = 8$