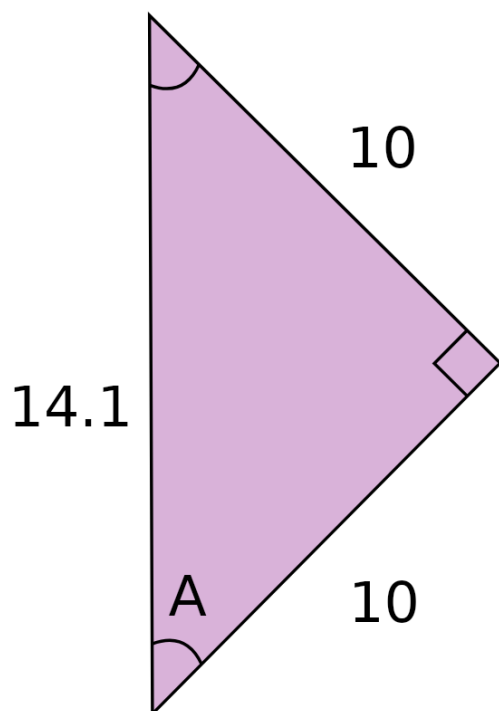


Right-Triangle Trigonometry

1 Solve for the trigonometric ratio in decimal form



A

$$\cos(A) = 0.71$$

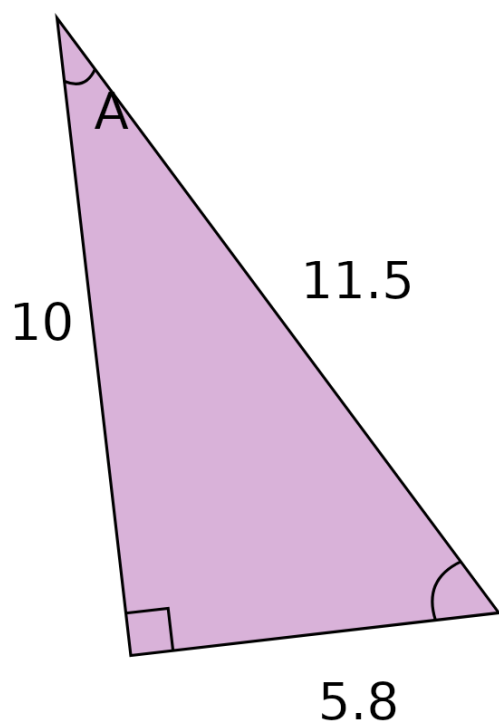
B

$$\cos(A) = 0.11$$

C

$$\cos(A) = 0.03$$

2 Solve for the trigonometric ratio in fraction form



A

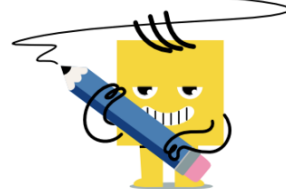
$$\sin(A) = \frac{5.8}{11.5}$$

B

$$\sin(A) = \frac{11.5}{11.5}$$

C

$$\sin(A) = \frac{11.5}{5.8}$$



Right-Triangle Trigonometry

- 3** Solve for the trigonometry ratio given the values

$$\begin{aligned} \text{opp} &= 7.1 \\ \text{hyp} &= 8.7 \\ \text{adj} &= 5 \\ \cos(\theta) &= \end{aligned}$$

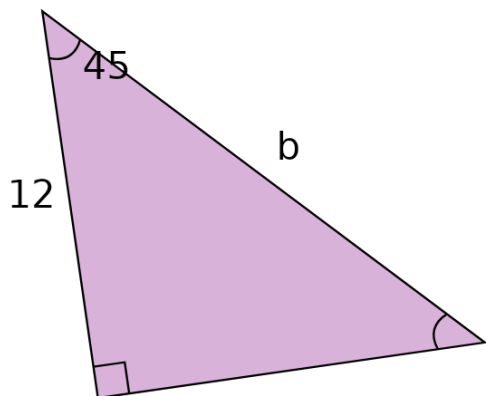
- | | |
|-------------------------|-------------------------|
| A $\cos(\theta) = 0.80$ | B $\cos(\theta) = 0.84$ |
| C $\cos(\theta) = 0.57$ | D $\cos(\theta) = 0.89$ |
| E $\cos(\theta) = 0.26$ | |

- 4** Solve for the side indicated

$$\begin{aligned} \beta &= 45^\circ \\ \text{hyp} &=? \\ \text{opp} &= 4 \end{aligned}$$

- | | |
|----------------------|----------------------|
| A $\text{hyp} = 5.1$ | B $\text{hyp} = 5.7$ |
| C $\text{hyp} = 6.8$ | D $\text{hyp} = 3.4$ |
| E $\text{hyp} = 4.5$ | F $\text{hyp} = 6.2$ |

- 5** Solve for the side length with trigonometry



- | | |
|--------------|--------------|
| A $b = 22.1$ | B $b = 11.9$ |
| C $b = 18.7$ | D $b = 23.8$ |
| E $b = 10.2$ | F $b = 17.0$ |

- 6** Solve for the angle in degrees given the values

$$\begin{aligned} \text{opp} &= 4 \\ \text{adj} &= 7 \\ \alpha &=?^\circ \end{aligned}$$

- | |
|-----------------------|
| A $\alpha = 30^\circ$ |
| B $\alpha = 25^\circ$ |
| C $\alpha = 15^\circ$ |
| D $\alpha = 40^\circ$ |

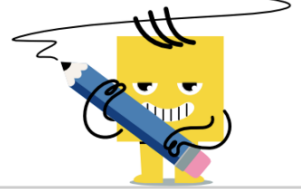
- 7** Calculate the angle in degrees, given the trigonometric ratio

$$\cos^{-1}(0.94) = \alpha$$

- 8** What angle (in degrees) has this ratio of sides?

$$\frac{\text{opp}}{\text{hyp}} = 0.643$$

- | | |
|----------|----------|
| A 20 deg | B 45 deg |
| C 30 deg | D 25 deg |
| E 60 deg | F 40 deg |



Right-Triangle Trigonometry

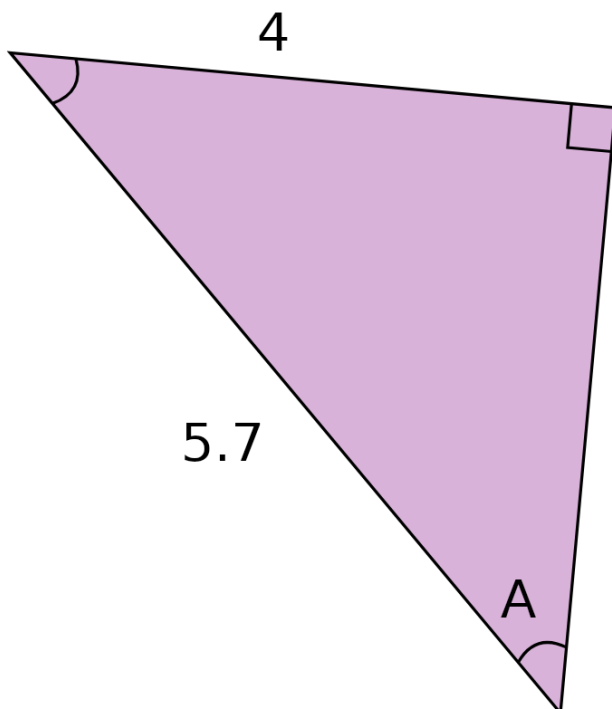
9 Solve for the length of line x



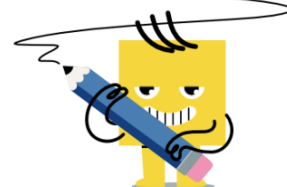
$$\frac{m}{x} = 4$$

A	$x = 6$	B	$x = 7$	C	$x = 19$
D	$x = 3$	E	$x = 22$	F	$x = 8$

10 Solve for the angle in degrees with trigonometry

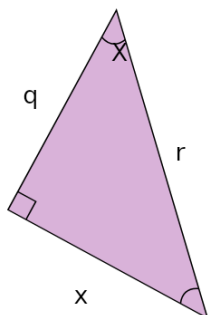


A	$A = 45^\circ$
B	$A = 50^\circ$
C	$A = 40^\circ$
D	$A = 65^\circ$



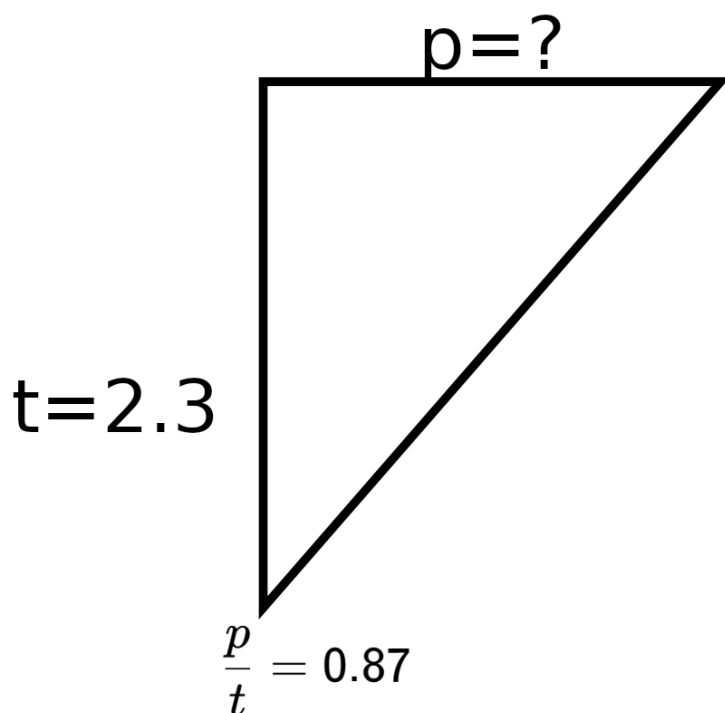
Right-Triangle Trigonometry

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

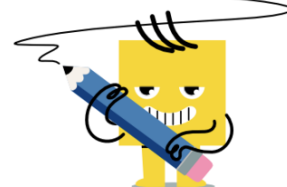


A	$\frac{x}{q}$	B	$\frac{r}{x}$
C	$\frac{r}{q}$	D	$\frac{q}{x}$
E	$\frac{q}{r}$	F	$\frac{x}{r}$

- 12** Solve for the length of line p

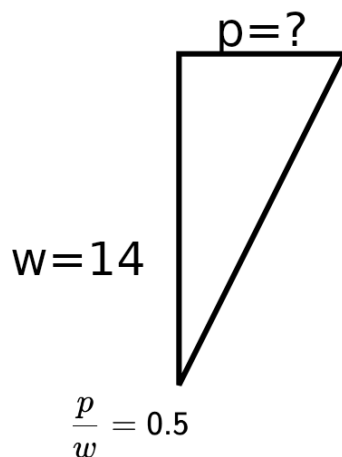


A	$p = 3$
B	$p = 2$
C	$p = 1$



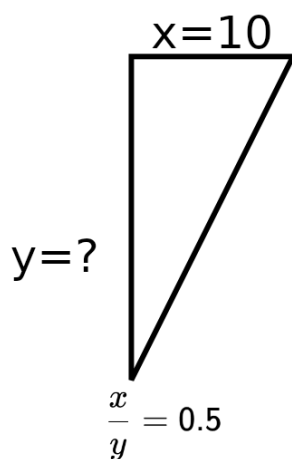
Right-Triangle Trigonometry

13 Solve for the length of line p

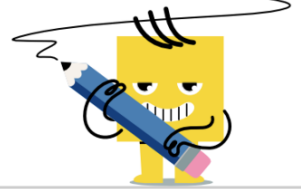


A	$p = 6$	B	$p = 17$	C	$p = 18$
D	$p = 11$	E	$p = 7$	F	$p = 14$

14 Solve for the length of line y

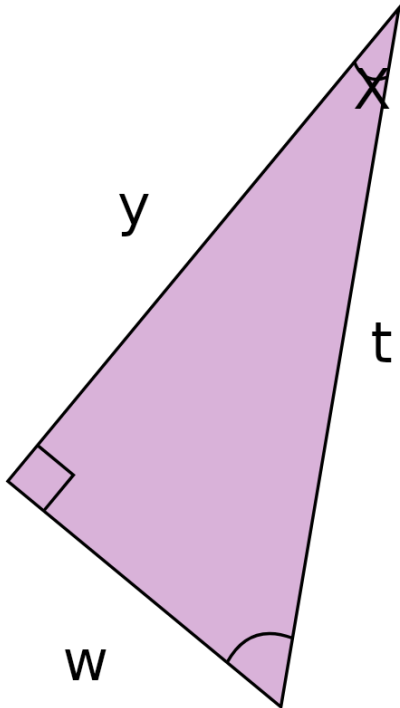


A	$y = 20$	B	$y = 15$	C	$y = 19$
D	$y = 6$	E	$y = 8$	F	$y = 13$



Right-Triangle Trigonometry

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



A

w

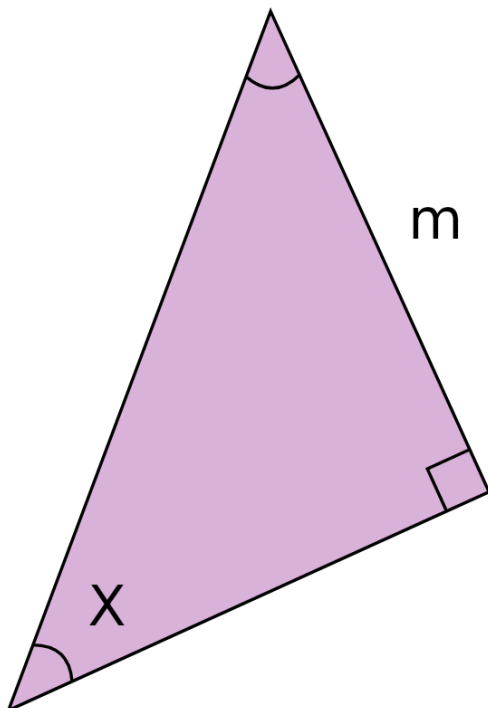
B

t

C

y

16 Name the side labeled 'm' with respect to angle 'X'?



A

Hypotenuse

B

Adjacent

C

Opposite