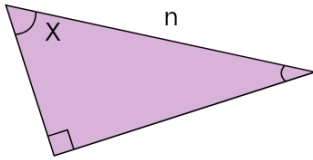




Solve contextual problems involving right triangles

1

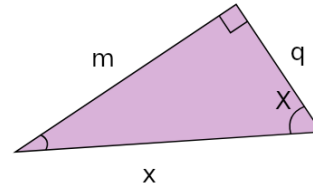
In trigonometry, what's the fancy name for the side labeled 'n' that across from the right angle?



- A Hypotenuse B Hardened C Halberd D Horizontal

2

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



- A q B x C m

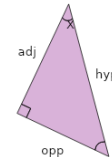
3

Mnemonic for trigonometry ratios

- | | |
|------------|-------------|
| A Somolomo | B Serasera |
| C Similola | D Sohcahtoa |

4

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



- A Tangent B Tabloid

5

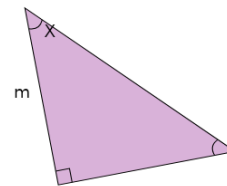
Using the mnemonic SOHCAHTOA, select the trigonometry ratio that this is the definition of

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

- | | |
|---|----------------|
| A | <i>Cosine</i> |
| B | <i>Sine</i> |
| C | <i>Tangent</i> |

6

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



- A Opposite B Hypotenuse C Adjacent

7

Solve for the side indicated

$$\mu = 30^\circ$$

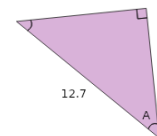
$$\text{hyp} = ?$$

$$\text{opp} = 5.8$$

- | | |
|-----------------------|-----------------------|
| A $\text{hyp} = 13.9$ | B $\text{hyp} = 15.1$ |
| C $\text{hyp} = 12.8$ | D $\text{hyp} = 7.0$ |
| E $\text{hyp} = 9.3$ | F $\text{hyp} = 11.6$ |

8

Solve for the angle in degrees with trigonometry



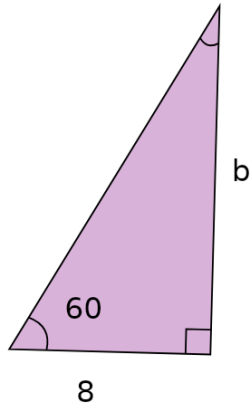
- | | |
|------------------|------------------|
| A $A = 45^\circ$ | B $A = 65^\circ$ |
| C $A = 30^\circ$ | D $A = 60^\circ$ |



Solve contextual problems involving right triangles

9

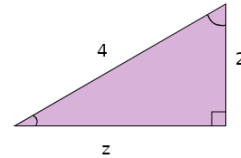
Solve for the side length with trigonometry



- | | |
|--------------|--------------|
| A $b = 15.2$ | B $b = 16.6$ |
| C $b = 13.9$ | D $b = 9.7$ |
| E $b = 11.1$ | F $b = 19.4$ |

10

Find the length of the missing side as a decimal value based on the Pythagorean theorem



- | | | |
|--------------|--------------|--------------|
| A $z = 3.74$ | B $z = 4.46$ | C $z = 4.5$ |
| D $z = 6$ | E $z = 2.08$ | F $z = 3.46$ |

11

Solve for the side indicated

$$\theta = 40^\circ$$

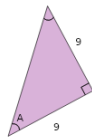
$$adj = 9$$

$$hyp = ?$$

- | | |
|----------------|----------------|
| A $hyp = 9.4$ | B $hyp = 10.6$ |
| C $hyp = 7.0$ | D $hyp = 12.9$ |
| E $hyp = 14.1$ | F $hyp = 11.7$ |

12

Solve for the angle in degrees with trigonometry



- | | |
|------------------|------------------|
| A $A = 65^\circ$ | B $A = 45^\circ$ |
| C $A = 50^\circ$ | D $A = 35^\circ$ |