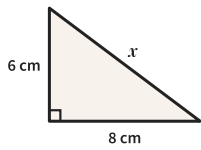


Interleaved: Pythagoras and trigonometry



1

Find x .



Which method? Pythagoras SOH CAH TOA

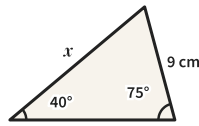
Sine rule Cosine rule

right angled, a side: $6^2 + 8^2 = 100$,
 $\sqrt{100} = 10$

Answer 10 cm

2

Find x . Give your answer to 1 decimal place.



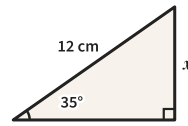
Which method? Pythagoras SOH CAH TOA

Sine rule Cosine rule

Answer _____

3

Find x . Give your answer to 1 decimal place.



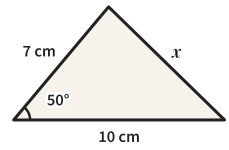
Which method? Pythagoras SOH CAH TOA

Sine rule Cosine rule

Answer _____

4

Find x . Give your answer to 1 decimal place.



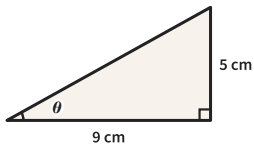
Which method? Pythagoras SOH CAH TOA

Sine rule Cosine rule

Answer _____

5

Find the angle θ . Give your answer to 1 decimal place.



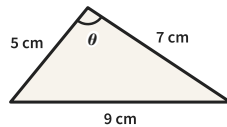
Which method? Pythagoras SOH CAH TOA

Sine rule Cosine rule

Answer _____

6

Find the angle θ . Give your answer to 1 decimal place.



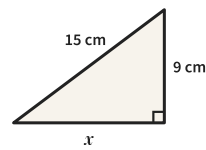
Which method? Pythagoras SOH CAH TOA

Sine rule Cosine rule

Answer _____

7

Find x .



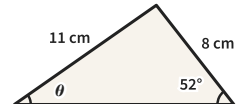
Which method? Pythagoras SOH CAH TOA

Sine rule Cosine rule

Answer _____

8

Find the acute angle θ . Give your answer to 1 decimal place.



Which method? Pythagoras SOH CAH TOA

Sine rule Cosine rule

Answer _____

Interleaved: Pythagoras and trigonometry further practice



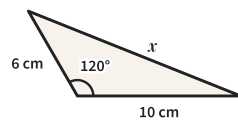
9

A zip wire runs in a straight line from the top of a 14 m tower to a point on level ground 30 m from the foot of the tower. How long is the wire? Give your answer to 1 decimal place.

Answer _____

10

Find x .



Answer _____

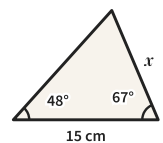
11

A kite flies on a straight 40 m string. The string makes an angle of 62° with the level ground. How high is the kite above the point where the string is held? Give your answer to 1 decimal place.

Answer _____

12

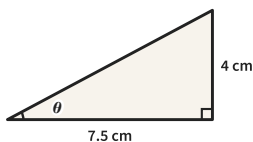
Find x . Give your answer to 1 decimal place.



Answer _____

13

Find the angle θ . Give your answer to 1 decimal place.



Answer _____

14

Two boats leave a harbour. One sails 6 km in a straight line and the other sails 9 km. The angle between their paths is 72° . How far apart are they? Give your answer to 1 decimal place.

Answer _____

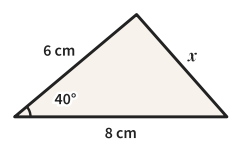
15

A rectangular screen is 70 cm wide. Its diagonal is 80 cm. How tall is the screen? Give your answer to 1 decimal place.

Answer _____

16

Sam wants to find x with the sine rule. Explain why he cannot, and find x .



Answer _____