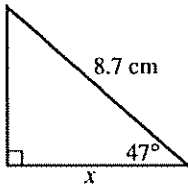


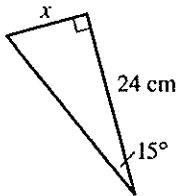
Trigonometry

Calculate the length of the unknown sides (labelled x) correct to 1 decimal place.

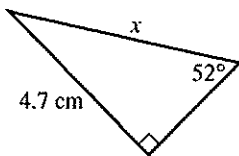
(a)



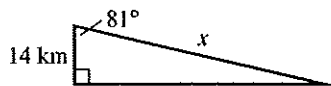
(b)



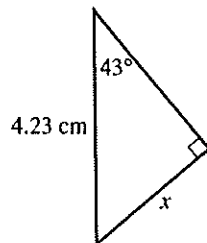
(c)



(d)

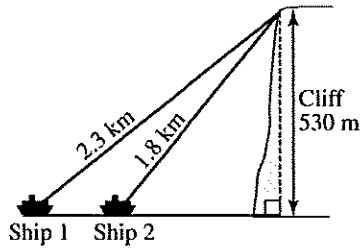


(e)



Christov looks out towards the sea from the top of a cliff and notices 2 ships.

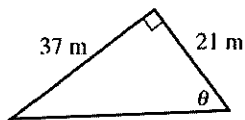
- What is the angle of depression from Christov to Ship 2? Give your answer correct to one decimal place.
- What is the angle of depression from Christov to Ship 1? Give your answer correct to one decimal place.
- Calculate the distance separating the two ships. Give your answer correct to the nearest metre.



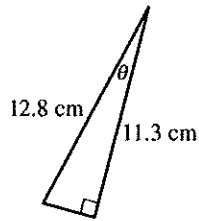
96

Evaluate the angle θ in these triangles to the nearest degree.

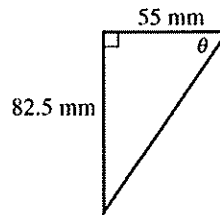
(a)



(b)

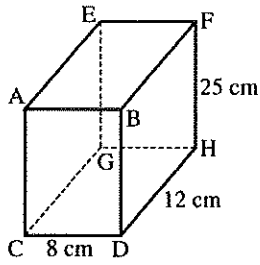


(c)



Pythagoras Theorem

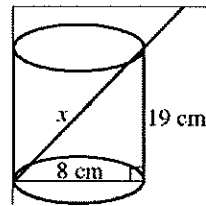
Q1



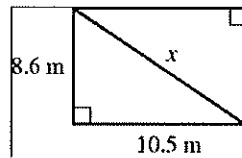
Find the length of GD and hence find the length of ED correct to 2 decimal places.

Q2

Beth places her straw in a can of soft drink. The height of the can is 19 cm and the diameter is 8 cm. If the length of her straw is 26 cm, how much is it above the top of the can?



Q3

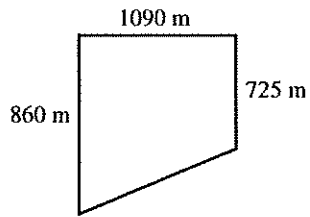


(a) Find the length of the diagonal of the rectangle in this figure.

(b) Find the area of the triangle in this figure.

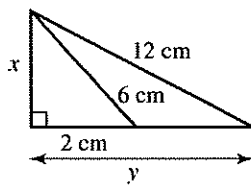
Q4

Gemma goes bike riding and travels 725 m north, then 1090 m west and then 860 m south. She stops for a rest. How far is she from her starting point?

**Q5**

Find the value of the pronumerals in these figures. Give answers correct to 2 decimal places, where appropriate.

(a)



(b)

