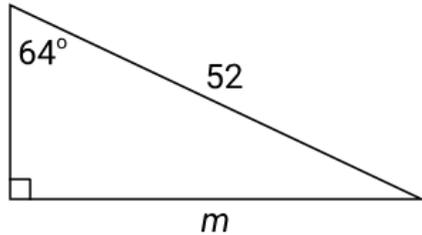


Year 9 Class 17 questions

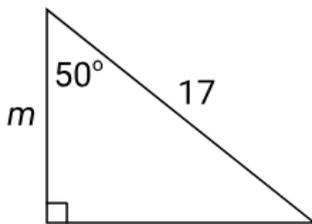
Q1

Find the value of m . (1 d.p.)



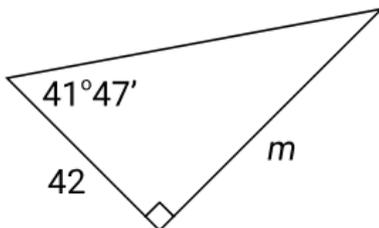
Q2

Find the value of m . (1 d.p.)



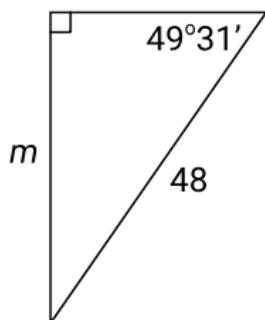
Q3

Find the value of m . (1 d.p.)



Q4

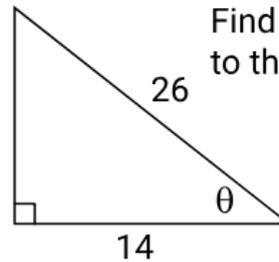
Find the value of m . (1 d.p.)



Q5

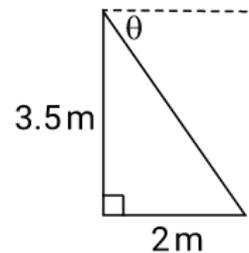
Find the value of θ correct to the nearest minute.

$\theta =$ $^\circ$ $'$



Q6

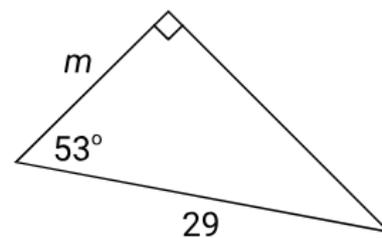
Joy is sitting in a tree, 3.5m above the ground. She observes Fritz the cat on the ground, 2m from the base of the tree. Calculate the angle of depression from Joy to Fritz.



$\theta =$ $^\circ$ (nearest degree)

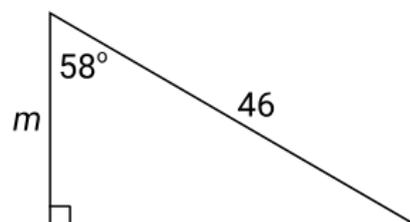
Q7

Find the value of m . (1 d.p.)



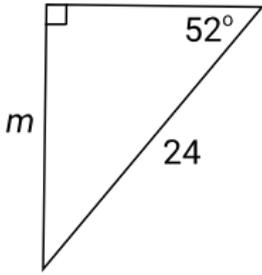
Q8

Find the value of m . (1 d.p.)



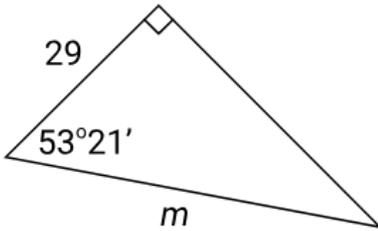
Q9

Find the value of m . (1 d.p.)



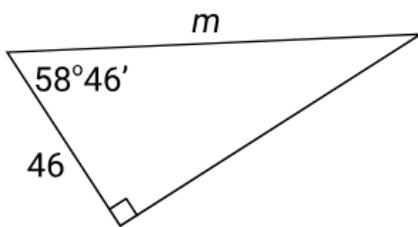
Q10

Find the value of m . (1 d.p.)



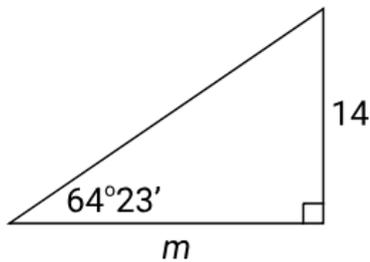
Q11

Find the value of m . (1 d.p.)



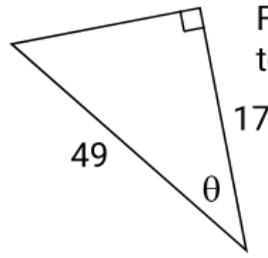
Q12

Find the value of m . (1 d.p.)



Q13

Find the value of θ correct to the nearest minute.

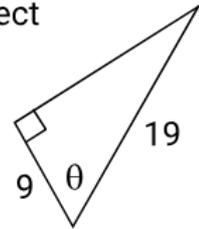


$$\theta = \text{ }^\circ \text{ }'$$

Q14

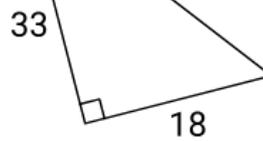
Find the value of θ correct to the nearest minute.

$$\theta = \text{ }^\circ \text{ }'$$



Q15

Find the value of θ correct to the nearest minute.

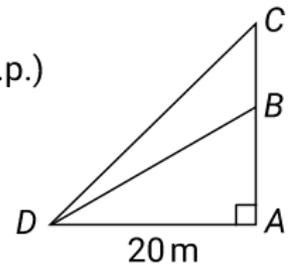


$$\theta = \text{ }^\circ \text{ }'$$

Q16

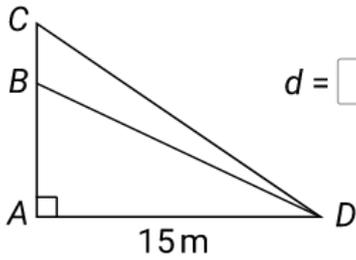
The angle of elevation from D to B is 30° . The angle of elevation from D to C is 45° . AD is 20 m. Find the distance from B to C.

$$d = \text{ } \text{ m (1 d.p.)}$$



Q17

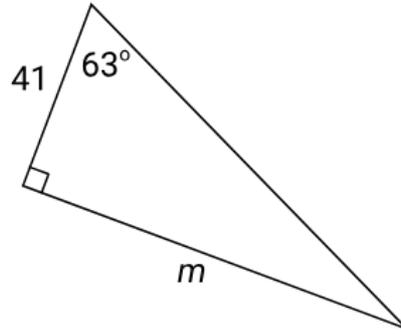
The angle of elevation from D to B is 25° .
 The angle of elevation from D to C is 35° .
 AD is 15m. Find the distance from B to C .



$d = \text{[]} \text{ m (1 d.p.)}$

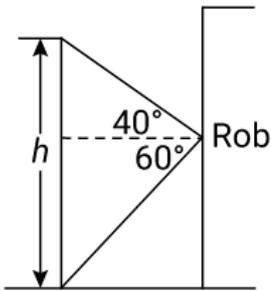
Q21

Find the value of m . (1 d.p.)



Q18

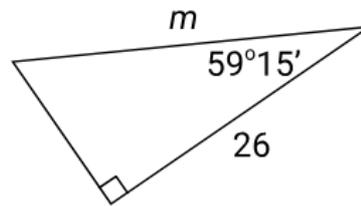
A rock climber Rob observes a cliff opposite him. The base of the cliff is at an angle of depression of 60° and the top of the cliff is at an angle of elevation of 40° . The distance between the base of the two cliffs is 110m. What is the height of the smaller cliff?



$h = \text{[]} \text{ m (1 d.p.)}$

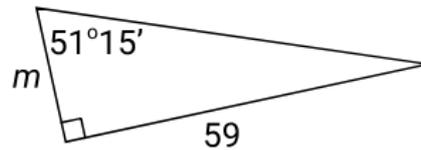
Q22

Find the value of m . (1 d.p.)



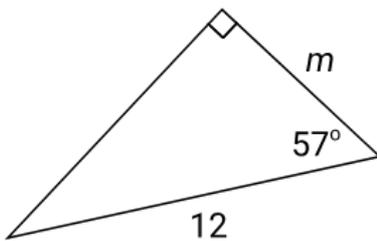
Q23

Find the value of m . (1 d.p.)



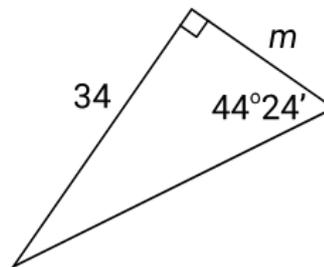
Q19

Find the value of m . (1 d.p.)



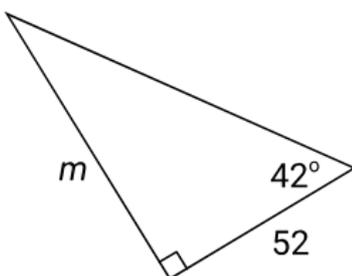
Q24

Find the value of m . (1 d.p.)



Q20

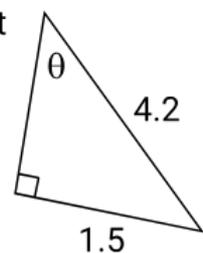
Find the value of m . (1 d.p.)



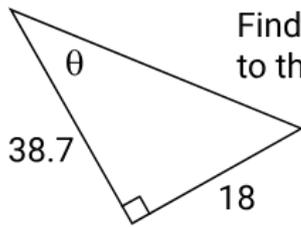
Q25

Find the value of θ correct to the nearest minute.

$\theta = \text{[]}^\circ \text{[]}'$



Q26



Find the value of θ correct to the nearest minute.

$$\theta = \square^\circ \square'$$

Q28

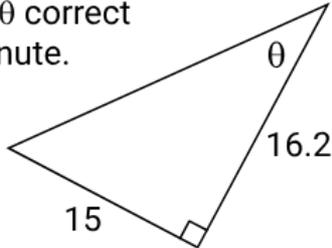
Janaire is flying a kite on the end of a 60 m string. The vertical height of the kite above the ground is 52 m. Find the angle of elevation of the kite from Janaire.

$$\theta = \square^\circ \text{ (nearest degree)}$$

Q27

Find the value of θ correct to the nearest minute.

$$\theta = \square^\circ \square'$$



Q29

A tree has a height of 4.5 m. What is the length of its shadow if the angle of elevation of the sun is $35^\circ 12'$?

$$d = \square \text{ m (1 d.p.)}$$

Q30

Bridie can see two birds in a tree. The angle of elevation from Bridie to the first bird is 15° and to the second bird is 23° . If Bridie is 25 m from the base of the tree, what is the distance between the two birds?

$$d = \square \text{ m (1 d.p.)}$$