

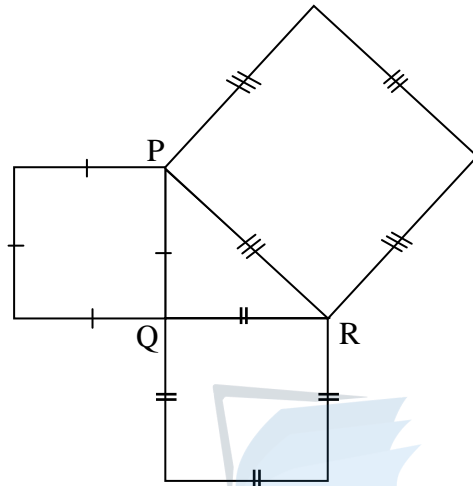


Grade 09

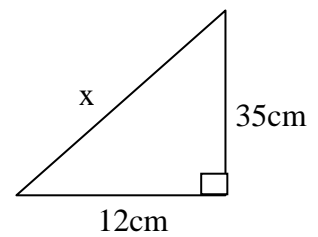
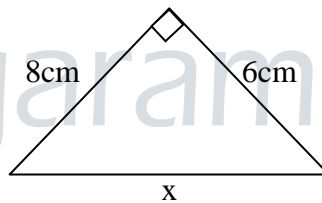
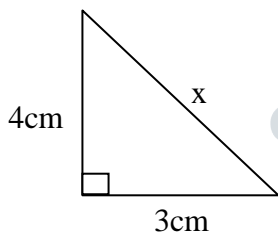
Mathematics

Unit : 19
 Pythagorean relation

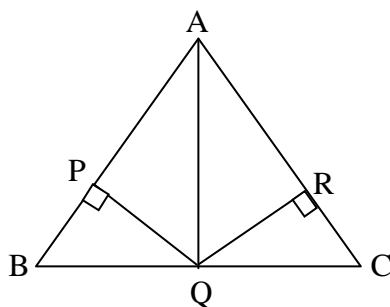
- 1) i) Mention Pythagorean relation.
 ii) If PQR is a right angled triangle, what is the relation between PQ, QR and PR.



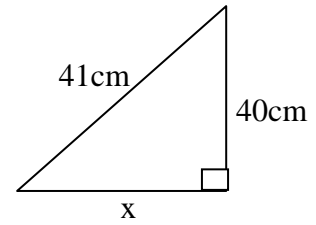
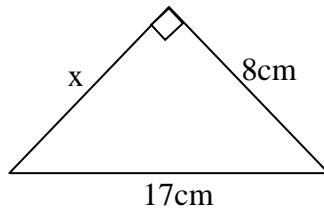
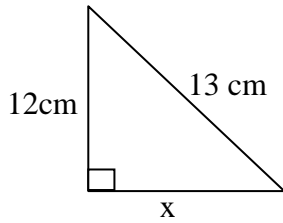
- 2) Find x



- 3) Identify all the right angled triangles in the following figure and write Pythagorean relation for each right angled triangle.



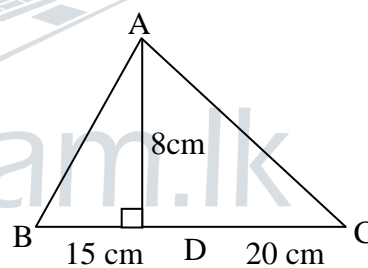
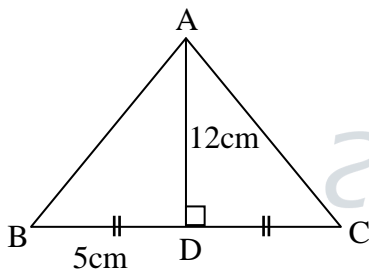
4) Find x



5) Piyal says " In ABC right angled triangle, side lengths are 25 cm, 24 cm and 7 cm". Is it true? Justify your answer.

6) In PQR triangle, side lengths are 17 cm, 8 cm and 15 cm Is it a right angle triangle? Justify your answer.

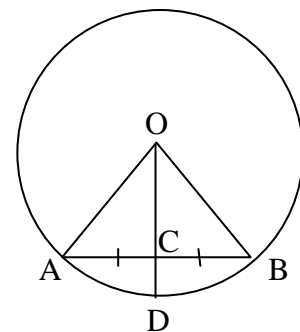
7) Find the perimeter of ABC triangles.



8) AB is a chord of a circle and C is the mid point of it.

If $\angle ACO = 90^\circ$, $OC = 12$ cm and $AC = 5$ cm find,

- i) radius of the circle.
- ii) Length of CD



9) To keep a coconut tree in vertical position a supportive rope is attached from top of the tree to 7 m away from the base of the tree. If height of the tree is 24m, find the length of the rope.

10) There are 2 routes to travel from P to R.

Route 1 – Travelling 20 km towards West and reach Q and travel towards North and reach R.

Route 2 – Travelling 29 km P to Q in direct path.

If a person took Route 1 to travel from P to R find the distance he traveled more than Route 2.



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