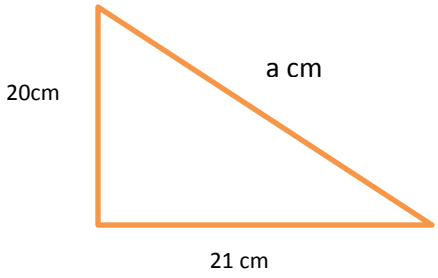
AL MOATTASSEM INTERNATIONAL SCHOOL - JUBAIL
Level 7 Mathematics ch 10 -Pythagoras Theorem

Second Term - Revision 2 - Questions

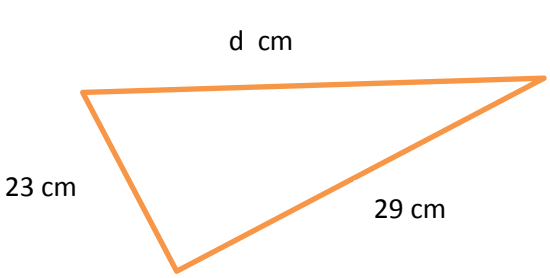
Solve the following:

Q1) Find the value of the unknown in each of the following right-angled triangles.

i)

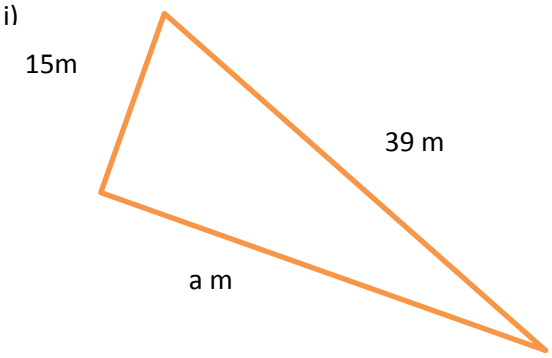


ii)

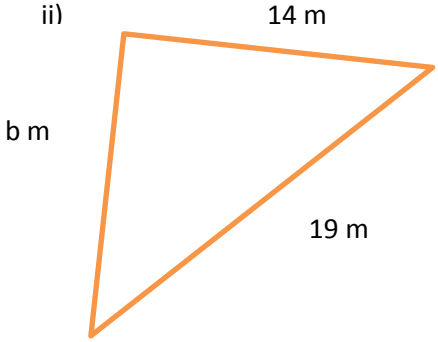


Q2) Find the value of the unknowns in each of the following right-angled triangles.

i)



ii)



Q3) In $\triangle ABC$ AB=8cm, BC = 15cm and $\angle B = 90°$. Find the length of AC.

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Q4) Each side of a square field is 50m long. A barricade is to be placed along the diagonal of the field. Find the length of the barricade.

Q5) Determine if each of the following triangles is a right- angled triangle. For each right-angled triangle, state the right angle.

a) △ ABC, given that AB = 12cm, BC = 10 cm and AC = 8cm

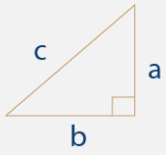
b) △ PQR, given that PQ= 34m, QR = 16m and PR = 30m

Q6) In △ PQR, PQ=19cm, QR=24cm and PR=30cm. Show that △ PQR is not a right-angled triangle.

Formula

Pythagoras Theorem:

$a^2 + b^2 = c^2$



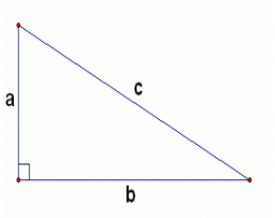
$a = \sqrt{c^2 - b^2}$

$b = \sqrt{c^2 - a^2}$

$c = \sqrt{a^2 + b^2}$

Converse of Pythagoras Theorem:

In a triangle ABC, if $AB^2 = BC^2 + AC^2$



$C^2 = a^2 + b^2$

Then $\angle C = 90°$