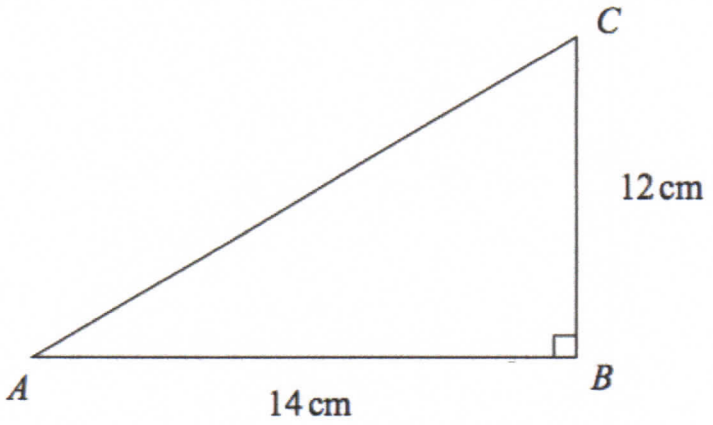
Geometry - Pythagoras Theorem

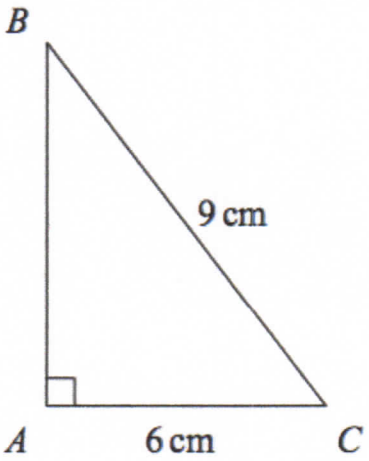
Q1



ABC is a right-angled triangle.
AB = 14 cm.
BC = 12 cm.

Calculate the length of *AC*.
Give your answer correct to 3 significant figures. ..... cm **(3)**

Q2



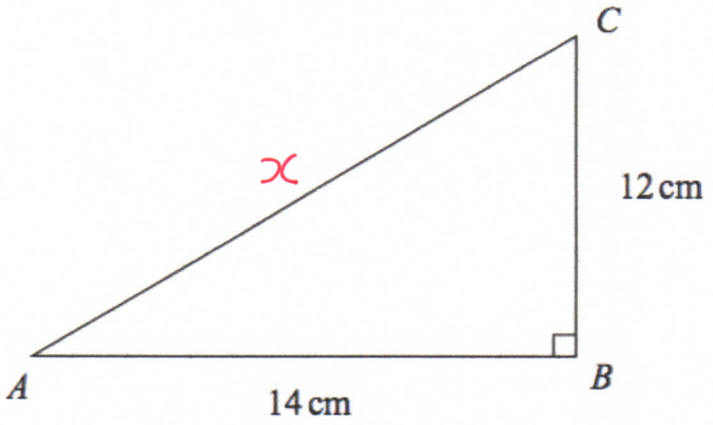
ABC is a right-angled triangle.

AC = 6 cm.
BC = 9 cm.

Work out the length of *AB*.
Give your answer correct to 3 significant figures. ..... cm **(3)**

Geometry - Pythagoras Theorem

Q1



By Pythagoras

$12^2 + 14^2 = x^2$

$340 = x^2$

$\sqrt{340} = x$

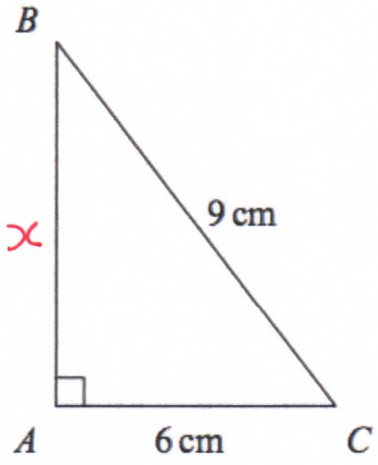
$x = 18.439\text{cm}$

ABC is a right-angled triangle.
AB = 14 cm.
BC = 12 cm.

Calculate the length of *AC*.
Give your answer correct to 3 significant figures.

18.4 ..... cm **(3)**

Q2



By Pythagoras

$x^2 + 6^2 = 9^2$

$x^2 = 9^2 - 6^2$

$x^2 = 45$

$x = \sqrt{45}$

$x = 6.708\text{ cm}$

ABC is a right-angled triangle.

AC = 6 cm.
BC = 9 cm.

Work out the length of *AB*.
Give your answer correct to 3 significant figures.

6.71 ..... cm **(3)**