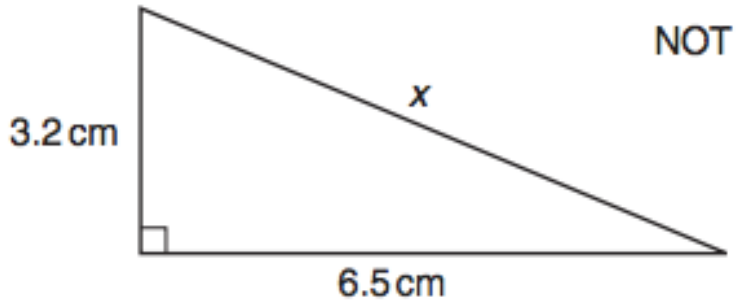
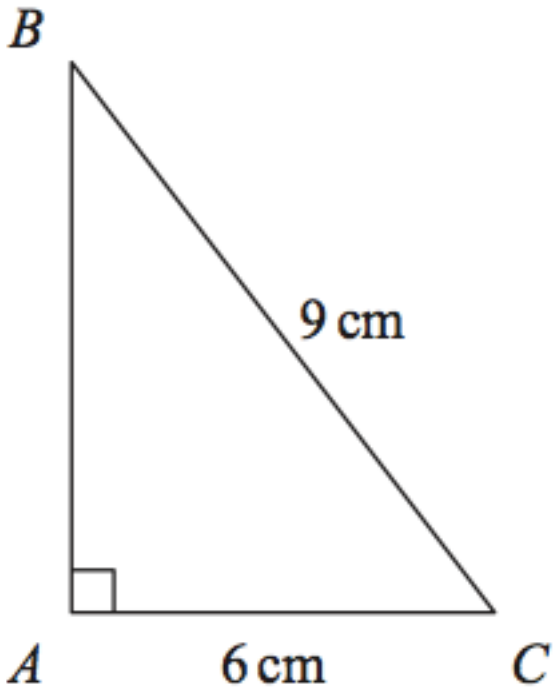
Geometry - Pythagoras Theorem

Calculate the value of x.



(3)

Geometry - Pythagoras Theorem



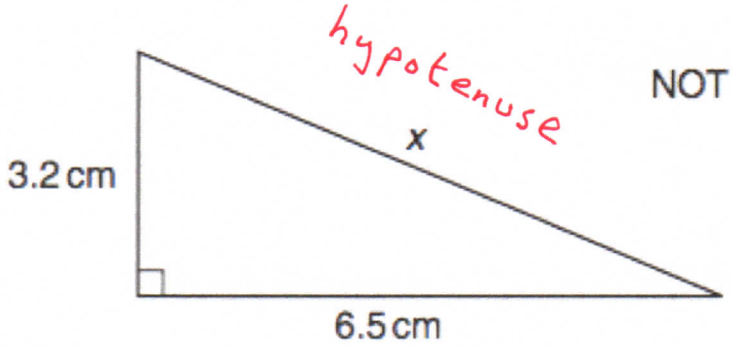
ABC is a right-angled triangle.

$AC = 6$ cm.
$BC = 9$ cm.

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

Geometry - Pythagoras Theorem

Calculate the value of *x*.



NOT TO SCALE

By Pythagoras

(3)

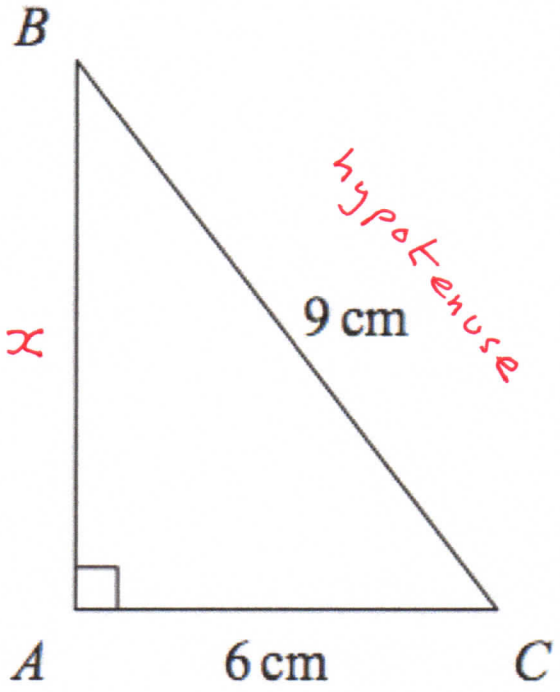
$$3.2^2 + 6.5^2 = x^2$$

$$52.49 = x^2$$

$$\sqrt{52.49} = x$$

$$x = 7.24 \text{ cm}$$

Geometry - Pythagoras Theorem



ABC is a right-angled triangle.

$AC = 6$ cm.
$BC = 9$ cm.

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

By Pythagoras

$$x^2 + 6^2 = 9^2$$
$$x^2 = 9^2 - 6^2$$
$$x^2 = 81 - 36$$
$$x^2 = 45$$
$$x = \sqrt{45}$$
$$x = 6.71 \text{ cm}$$
$$AB = 6.71 \text{ cm}$$