5.6 – Pythagoras' theorem
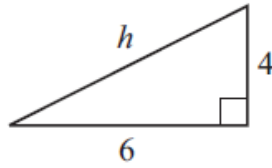
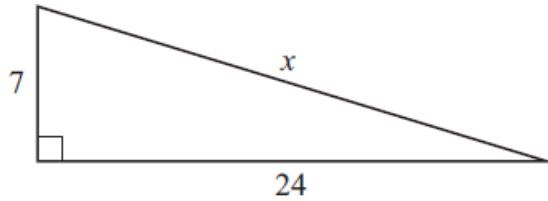Student name: _____ Answers _____ Score: _____

1.

NOT TO SCALE

Find the exact value of h.
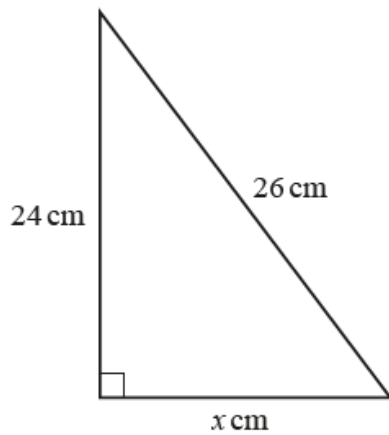
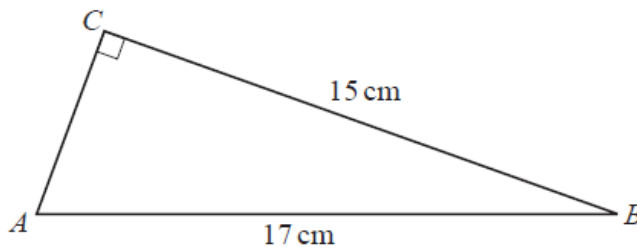.......... $2\sqrt{13}$ .... [2]

2.

NOT TO SCALE

Find x.

$x = $ .... 25 .... [2]

3.

NOT TO SCALE

Find the value of x.

$x = $ ..... 10 .... [3]

4.

NOT TO SCALE

Work out the length of AC.

.... 8 .... cm [3]

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5.
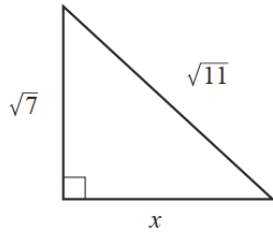
NOT TO SCALE

Find the value of x.

$x =$ ....2.. [2]

6.
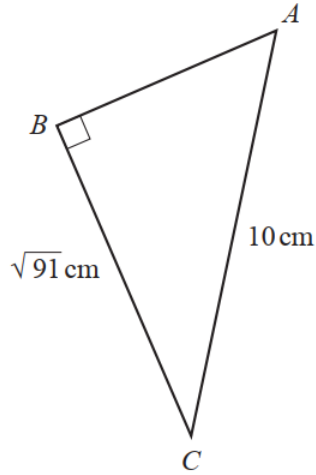
NOT TO SCALE

Work out the length of AB.

$AB =$ ....3.. cm [3]

7. In this question all lengths are in centimetres.
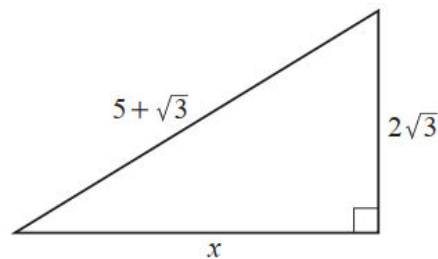
NOT TO SCALE

Find the value of x^2.
Give your answer in the form $a + b\sqrt{3}$ where a and b are integers.

$x^2 =$ ....$16 + 10\sqrt{3}$........................ [4]