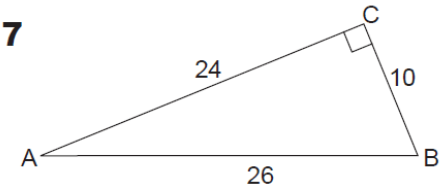
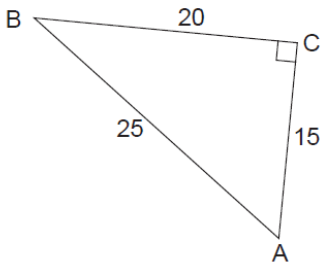
For each of the following triangles, complete the table below and verify that the square on the hypotenuse is equal to the sum of the squares on the other two sides.

7



8



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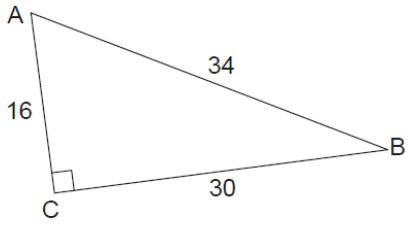


	a	*b*	*c*	a^2	b^2	c^2	$a^2 + b^2$
7							
8							
9							

QUESTION 1 Use your calculator to find the following squares.

a $15^2 =$ _____ **b** $13^2 =$ _____ **c** $40^2 =$ _____

d $28^2 =$ _____ **e** $5^2 =$ _____ **f** $69^2 =$ _____

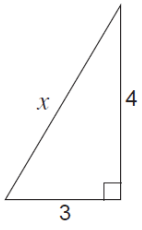
QUESTION 2 Use the square root key to find n.

a $n^2 = 169$ _____ **b** $n^2 = 841$ _____ **c** $n^2 = 576$ _____

d $n^2 = 4761$ _____ **e** $n^2 = 100$ _____ **f** $n^2 = 1444$ _____

QUESTION 1 Find the length of the hypotenuse in each of the following. (All measurements are in centimetres.)

a

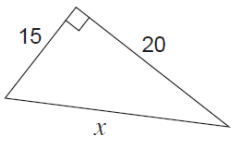


_____

_____

_____

b

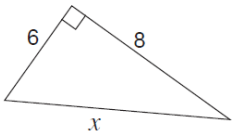


_____

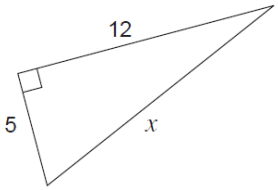
_____

_____

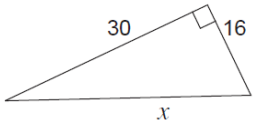
c



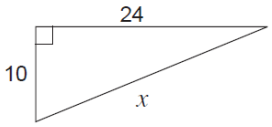
d



e



f



QUESTION 4 Prove that the following triangles are right angled triangles.