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## Worksheet: Pythagoras' Theorem

This worksheet has questions about Pythagoras' Theorem which defines the association between the sides of a right-angled triangle. Specifically, the square of the hypotenuse is equal to the sum of the squares of the other two sides.

Model solutions to this sheet



Pythagoras' Theorem study guide

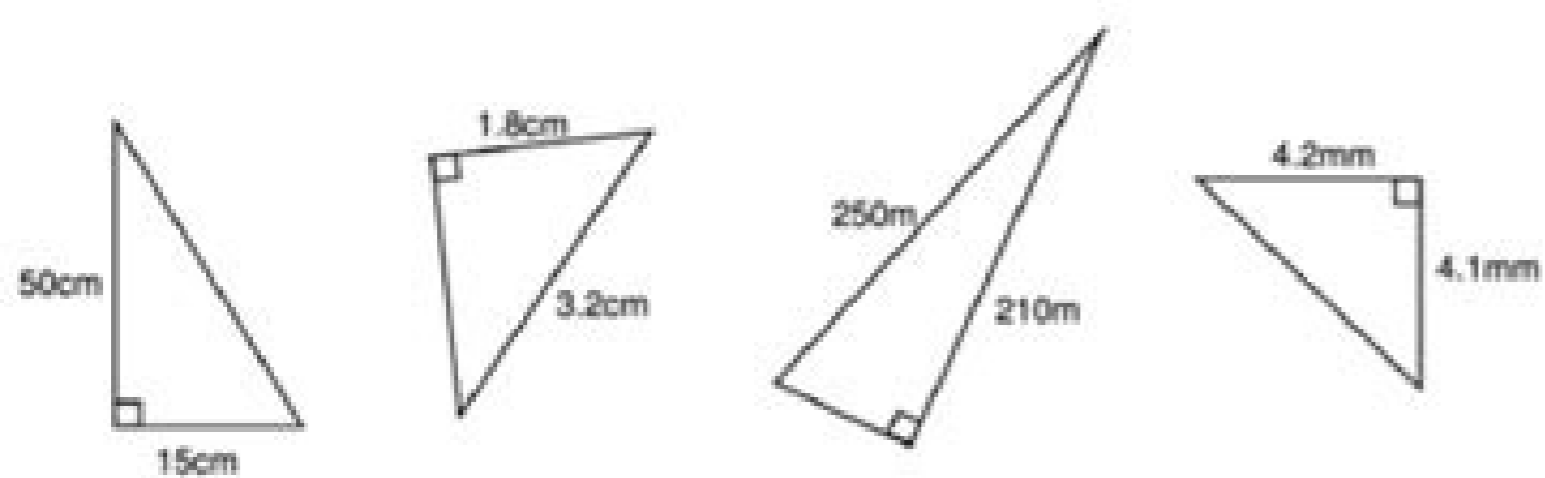


1. If the hypotenuse of a right-angled triangle is given by  $c$  and the other two sides are given by  $a$  and  $b$ , Pythagoras' Theorem is given by  $a^2 + b^2 = c^2$ . One problem that can arise when using Pythagoras' Theorem is incorrectly rearranging the equation.

- (i) Rearrange  $a^2 + b^2 = c^2$  for  $a$ .
- (ii) Rearrange  $a^2 + b^2 = c^2$  for  $b$ .
- (iii) Rearrange  $a^2 + b^2 = c^2$  for  $c$ .

Before carrying on, ensure that you have rearranged the equation correctly in each case.

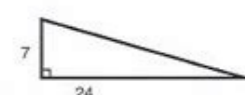
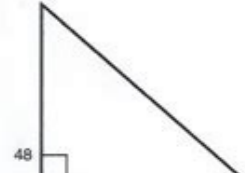
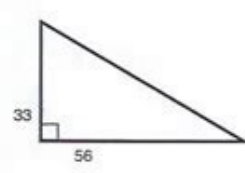

2. Find the missing side in the following places.



(i) (ii) (iii) (iv)

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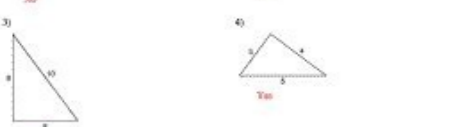
Find the length of the third side of each triangle.

	$7^2 + 24^2 = c^2$ $49 + 576 = c^2$ $625 = c^2$ $\sqrt{625} = c$ $25 = c$
	$48^2 + 55^2 = c^2$ $2304 + 3025 = c^2$ $5329 = c^2$ $\sqrt{5329} = c$ $73 = c$
	$33^2 + 56^2 = c^2$ $1089 + 3136 = c^2$ $4225 = c^2$ $\sqrt{4225} = c$ $65 = c$
	$14^2 + 48^2 = c^2$

Exam Solution: Solving For Angles

The Pythagorean Theorem

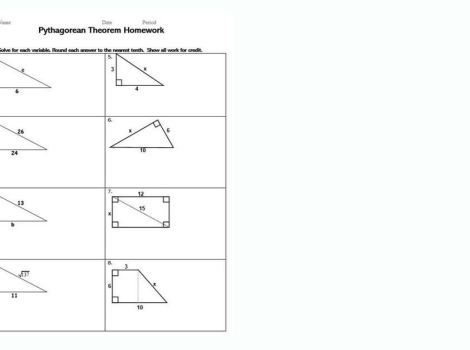
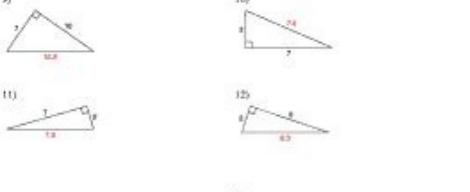
Find the missing length from a right-angled triangle



1)  $3^2 + 4^2 = x^2$   
 $9 + 16 = x^2$   
 $25 = x^2$   
 $\sqrt{25} = x$   
 $5 = x$

2)  $5^2 + 12^2 = x^2$   
 $25 + 144 = x^2$   
 $169 = x^2$   
 $\sqrt{169} = x$   
 $13 = x$

Find each missing length in the second set.





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