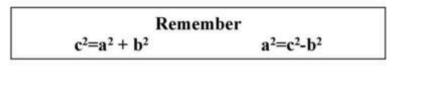
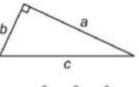
Pythagorean Theorem Worksheet

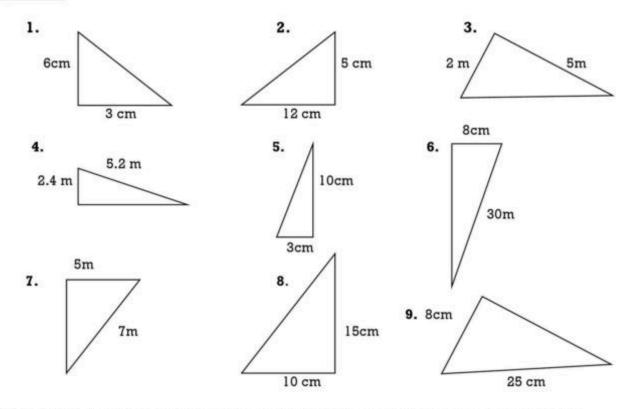
In any right triangle, the sum of the squares of the two shorter sides is equal to the square of the longer side.







Find the length of the missing side in the following examples. Round answers to the nearest tenth, if necessary. **Please do and show all work on a separate piece of loose leaf!**



What is the length of the missing side for the following right angle triangles? <u>Show</u> all work on a separate piece of loose leaf!

10.	a = 3; b = 4; c = ?	12. $a = 4$; $b = 2$; $c =$?
11.	a = 6; $b = ?$; $c = 16$;	13. $a = ?; b = 3.5; c =$	= 4.2

14. A ladder is leaning against the side of a 10m house. If the base of the ladder is 3m away from the house, how tall is the ladder? **Please draw a diagram and show all work**.