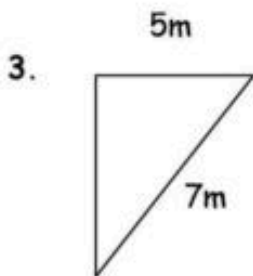
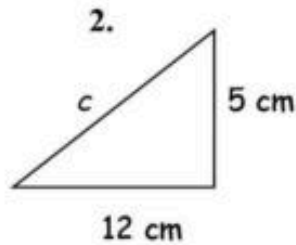
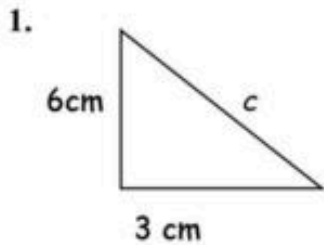


Name: \_\_\_\_\_

### The Pythagorean Theorem

Find the length of the missing side in the following examples. Round answers to the nearest tenth, if necessary.

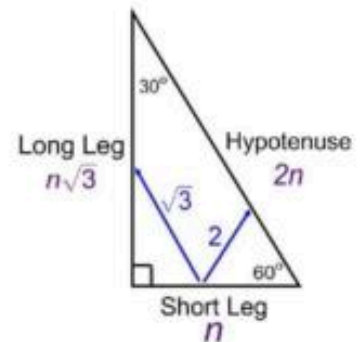


4. A ladder is leaning against the side of a 10m house. If the base of the ladder is 3m away from the house, how tall is the ladder? **Please draw a diagram and show all work.**

### Special Right Triangles: 30° - 60° - 90°

Hypotenuse = 2 \* Short Leg

Long Leg = Short Leg \*



Find the value of  $x$  and  $y$  in each triangle.

