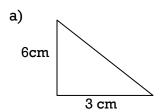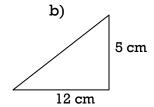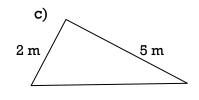# **Pythagorean Theorem Review Worksheet**
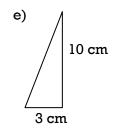
1. Determine the length of the unknown side. ***Show all of your work.***

a)

6cm

3 cm

b)

5 cm

12 cm

c)

2 m

5 m

d)

5.2 m

2.4 m

e)

10 cm
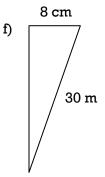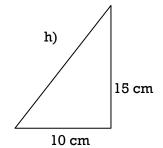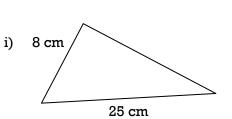
3 cm

f)

8 cm

30 m

g)

5 m

7 m

h)

15 cm

10 cm

i)   8 cm

25 cm

2. Find the third side of a right triangle if the hypotenuse is 14 km and one side is 9 km.

3. A rectangle is 6 ft long and 11 ft wide. What is the length of the diagonal of the rectangle?

4. Given a right triangle with legs 5cm and 12cm, find the length of the hypotenuse.

5. Given an isosceles right triangle with side 6 m, what is the length of the hypotenuse?

6. A ladder is leaning against the side of a 10 m house. If the base of the ladder is 3 m away from the house, how long is the ladder? **Please draw a diagram.**