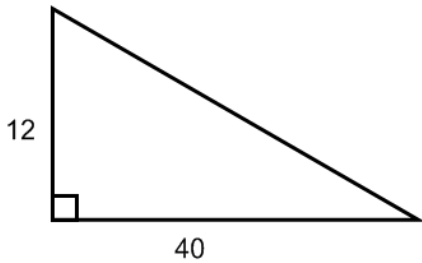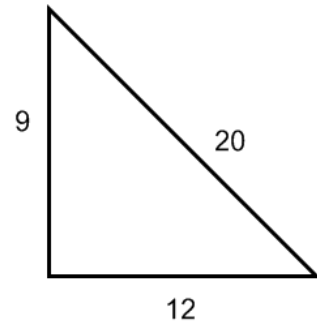Name _____   Date _____   Class_____

1. Describe verbally what the Pythagorean theorem tells us about right triangles:
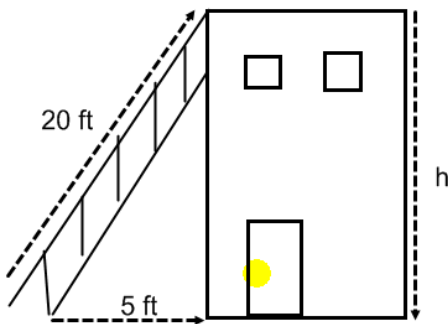
_____

_____

_____

2. What is the value of the missing side in the triangle below? Show your work and round your answer to the nearest tenth.

12

40

3. Prove whether the triangle below is a right triangle. Include a brief explanation.

9

20

12

4. A ladder which is 20 feet long is placed 5 feet away from a building. What is the height of the building?

20 ft

h

5 ft

5. Using the figure below, prove that a² +b²= c²

b   a

a   b

b

c   c   c   c

a

a   b