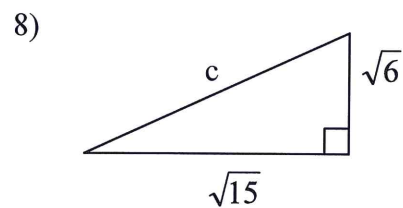
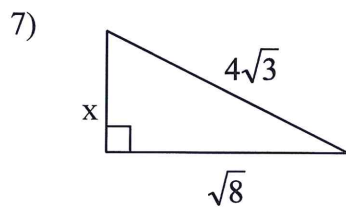
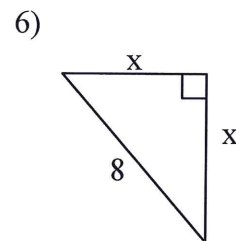
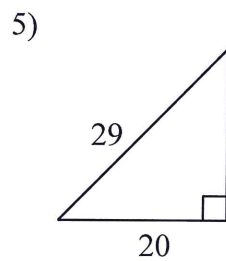
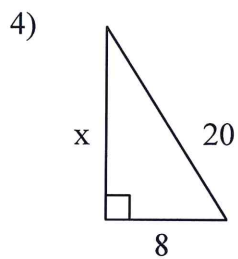
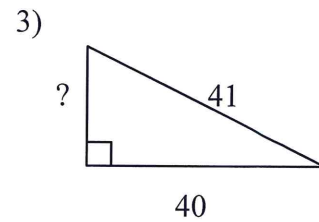
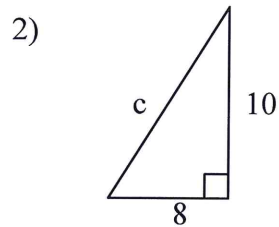
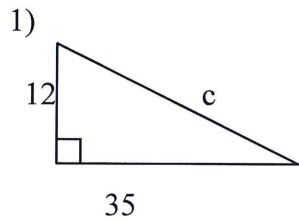


**Pythagorean Theorem**  
**Do work on Sheet**

**Find the length of the missing side. Round to the nearest tenth.**



Continue with the work on the back



Tell if the following can be the sides of a right triangle.

1) 6, 10, 8

2) 7, 4, 5

3) 12, 16, 20

7)  $\sqrt{7}$ ,  $\sqrt{10}$ ,  $\sqrt{15}$

8)  $2\sqrt{3}$ ,  $2\sqrt{5}$ ,  $4\sqrt{2}$

9) 3, 5,  $2\sqrt{8}$

- 4) A ladder 39 feet long leans against a building and reaches the ledge of a window. If the foot of the ladder is 15 feet from the foot of the building, how high is the window ledge above the ground?

- 5) What must be the length of a ladder that Mr. Rizzo can use if he wishes to place the bottom of the ladder 5 feet from the wall and he wishes to reach the window that is 15 feet above the ground? Give the answer correct to the nearest **tenth** of a foot.

- 6) Miss Murray traveled 24 kilometers north and then 10 kilometers east. How far was she from her starting point?

- 7) One day Ernie walked from his home at A to his school at C by walking along AB and BC, the sides of a rectangular open field that was muddy. When he returned home, the field was dry and Ernie decided to take a short cut by walking diagonally across the field along CA. How much shorter was his trip home than his trip to school?

