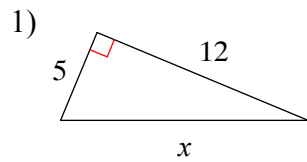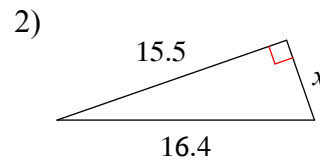Name_____

Homework 3.3 Pythagorean Theorem
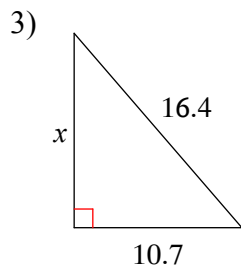
Date_____

Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

1)
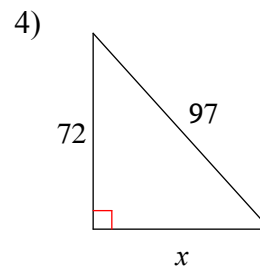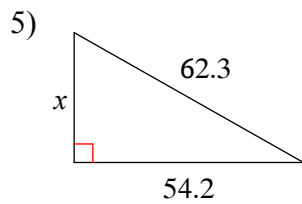
5

12

x

13

2)

15.5

x

16.4

5.4

3)

x
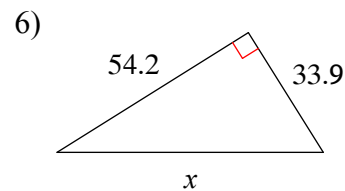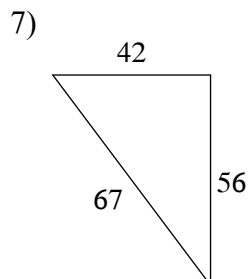
16.4

10.7

12.4

4)

72

97

x

65

5)

x

62.3

54.2

30.7

6)

54.2

33.9

x

63.9

State if each triangle is a right triangle.

7)

42

67

56

No

8)

48

60

36

Yes

9)

13.8

23

18.4

Yes

10)

90.1

47.6

76.2
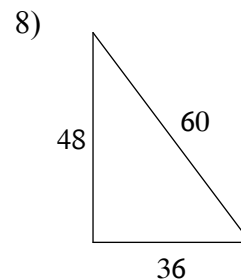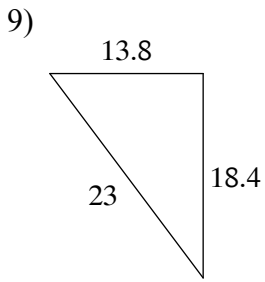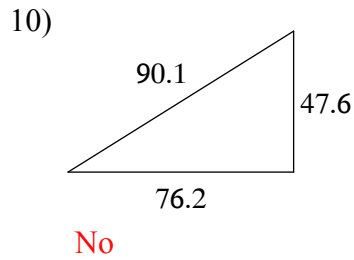
No

Read the question twice. Draw the situation, labelling the sides. Solve the missing side. Write the answer in a sentence.

11) A 35-foot ladder is leaning against the side of a building and is positioned such that the base of the ladder is 21 feet from the base of the building. How far above the ground is the point where the ladder touches the building?

12) Shari went to a level field to fly a kite. She let out all 650 feet of the string and tied it to a stake. Then, she walked out on the field until she was directly under the kite, which was 600 feet from the stake. How high was the kite from the ground?