Name_____ Geometry   8-1 Worksheet

Find the value of x. Round your answers to the nearest tenth.

1.

8
6
x

2.

x
24
7

3.

16
x
30

4.

x
12
16

5.

x
$\sqrt{137}$
11

6.

6
4
x

7.

x
4
7

8.

15
18
x

9.

x
6
x

10.

10
x
5
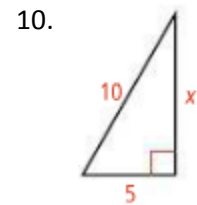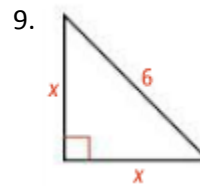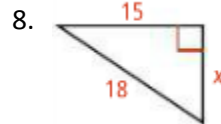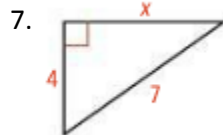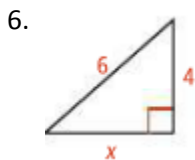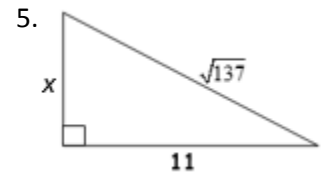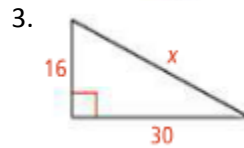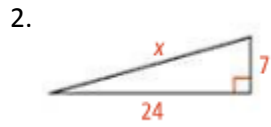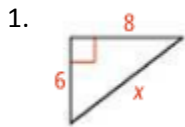
Does each set of numbers form a Pythagorean Triple?

11. 4, 5, 6   12. 10, 24, 26

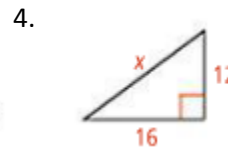The lengths of the sides of a triangle are given. Classify each triangle as acute, right, or obtuse.

13. 4, 5, 6   14. 0.3, 1.4, 0.6   15. 30, 40, 50   16. $\sqrt{11}, \sqrt{7}, 4$

17. A painter leans a 15 ft ladder against a house. The base of the ladder is 5 ft from the house. To the nearest tenth of a foot, how high on the house does the ladder reach?

18. A walkway forms one diagonal of a square playground. The walkway is 24m long. To the nearest meter, how long is a side of the playground?

19. A square is drawn in a circle so the vertices touch the circle. If the radius of the circle is 9 cm, find the perimeter of the square.