Geometry   Name: _____

Concept 18 Worksheet – due Wednesday 1/29   Period: _____

USING THE GEOMETRIC MEAN

Find the geometric mean between each pair of numbers. Round answers to the nearest tenth if necessary.
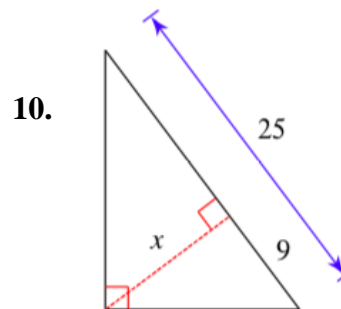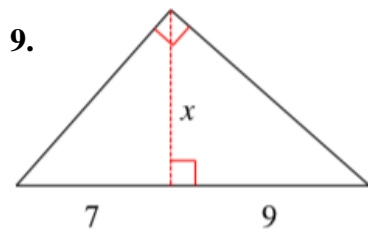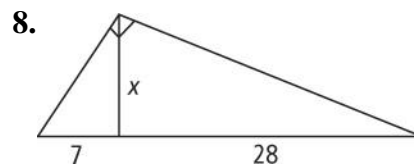
1. 4 and 4   **2.** 4 and 6   **3.** 6 and 9
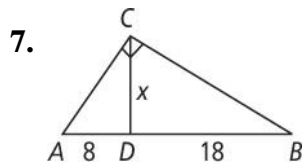
4. 0.5 and 2   **5.** 2 and 22   **6.** 4 and 25

Find the length of the altitude in each right triangle. Round answers to the nearest tenth if necessary.

7.

8.

9.

10.

PROPORTIONS IN TRIANGLES

Find the value of the variable. Show your work.

11.

x

24

30   10

12.

16   32

y   *y* + 3

13.

8

10   10

x

14.

x   *x* + 1

6   9

15.

6

9

x

8

16. *x*

x + 10

30   10

17.

x   11   33

x + 12

18.

20   4

16   *x*

19.

5   *x*

4   3

20.

3   4

x   *x* + 4

21.

16   12

x   9

22.

36   20

21

x   22

y