Name _____   Hour _____

Acc Geometric Mean Homework #1

1. Find the geometric mean between the two numbers. Show all work and simplify radicals!
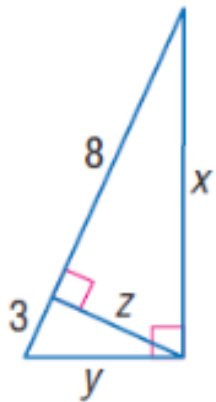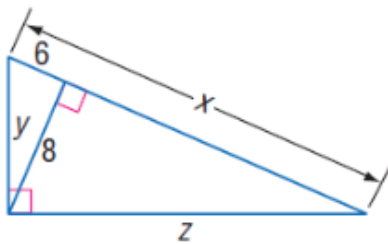
4 and 4

6 and 9

$2\sqrt{3}$ and $3\sqrt{3}$

Find the Geometric Mean between a and b where $a = 4\sqrt{5}$ and $b = 7\sqrt{10}$.
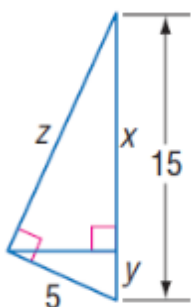
Find the value of each variable.

2.

3.

4.

5.

A right triangle with hypotenuse $\sqrt{12}$ along the top, an altitude $\sqrt{3}$ to the hypotenuse, segments labeled y and x, and base 1.

6.

A right triangle with sides 36, 60, altitude drawn to hypotenuse, and segment x.

7.

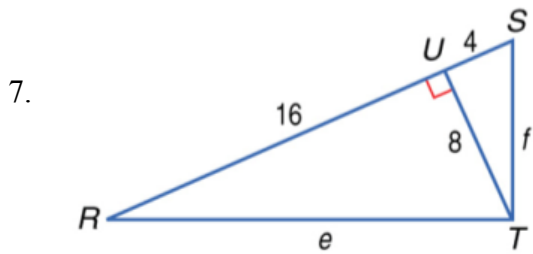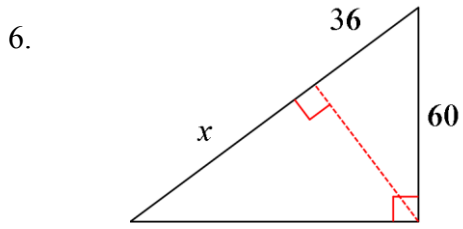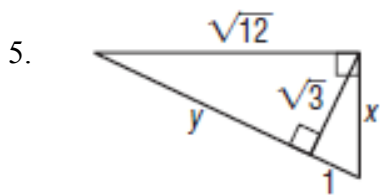Triangle with R, T, S, U. Segments: 16, U 4 S, 8, f, e.

8. $\sqrt{17}$ is the geometric mean of a and b. Find a if $b = \sqrt{3}$.

9. 10 is the geometric mean between 2 and another number. Find the other number.