

**H. Geom.**

**Review- ~ $\Delta$ 's**

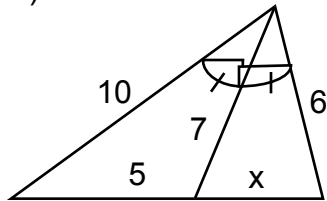
**Name** \_\_\_\_\_

1. The geometric mean of two consecutive even numbers is  $4\sqrt{5}$ , find the numbers.

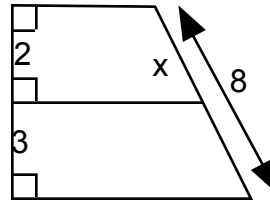
2. The "mean" of 8 and  $x$  equals 12. Find the value of  $x$  if the mean referred to is...  
a) the arithmetic mean    b) the geometric mean    c) the harmonic mean

3. Find the value of  $x$

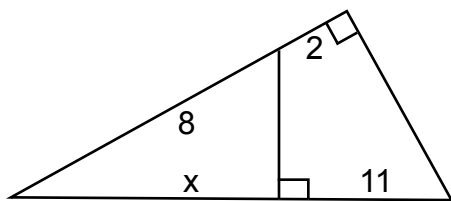
a)



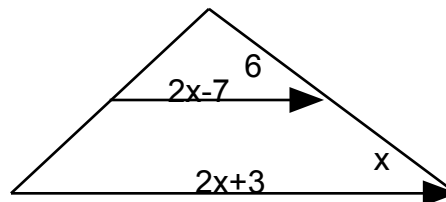
b)



c)



d)



4. The population of zebra in a game reserve grows exponentially. If the population started out at 800 and reached 1568 after two years, how many zebra were there after just one year?

5. Given:  $\overline{AB} \cong \overline{BC}$   
 $\overline{AE} \perp \overline{BC}$   
 $\overline{AC} \perp \overline{BD}$

Prove:  $AC \cdot BD = AB \cdot AE$

