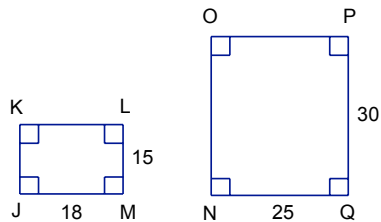


Honors Geometry~ Section 8.1-8.3, 8.5 Review

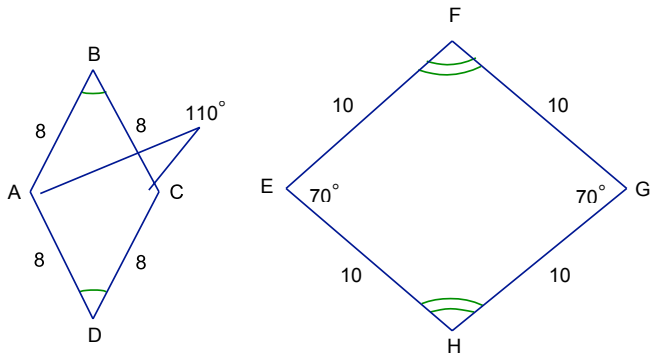
Name: _____ Class Period: _____ Date: _____

Are the polygons similar? If they are, write a similarity statement and give the similarity ratio. If they are not, explain.

1.

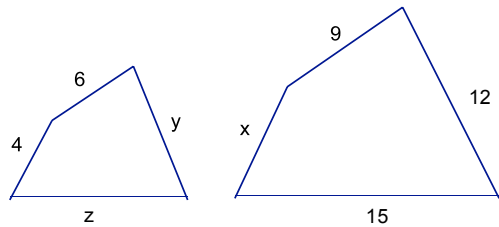


2.

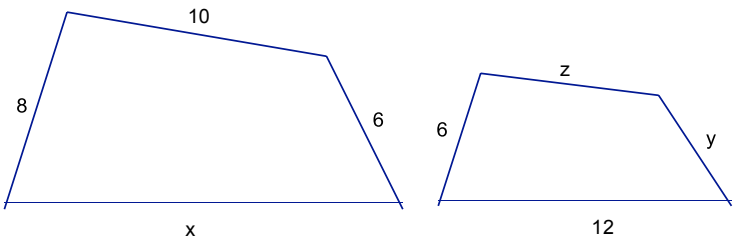


The polygons are similar. Find the values of the variables.

3.



4.



5. Find the ratio of the fourth proportional 1, 2, and 3 to the fourth proportional 4, 5, and 6.

6. Find the ratio of x to y.

$$\frac{2}{3x + 5y} = \frac{4}{x - 3y}$$

Find the geometric mean of each pair of numbers. If the answer is not a whole number, leave it in simplest radical form.

6. 10, 15

7. 4, 9

8. 6, 12

Solve each proportion for x.

9. $\frac{x}{4} = \frac{6}{12}$

10. $\frac{4}{3-x} = \frac{2}{5}$

11. $\frac{4}{3x} = \frac{x}{x+2}$

- 12) Given: $\overleftrightarrow{BE} \parallel \overleftrightarrow{CD}$,
AB = 4x, BC = x,
AD = 8x, BE = 5x

Find: AE and CD (in terms of x)

