

Name _____

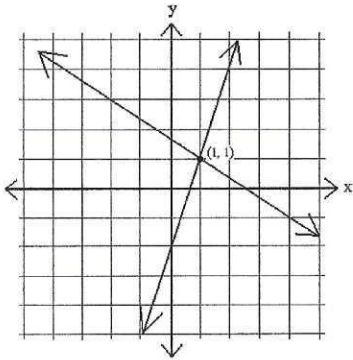
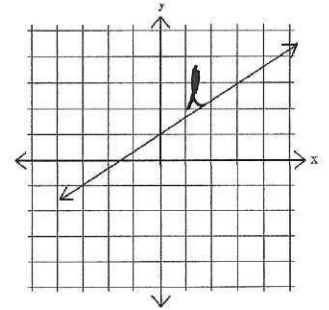
Date _____

Mrs. Roubos

8R Period _____

Homework Day 4

1. What is the solution for the following system?

2. What is the slope of line l shown in the accompanying diagram?

3. How many solutions does the following equation have?

$$6x + 4 = 6x - 5$$

4. Does $(2, 7)$ lie on the graph of the equation $y = 5x - 3$?5. What is the equation for the line passing through the points $(3, 0)$ and $(0, 5)$?6. Solve the following system for x & y .

$$4x + 2y = 8$$

$$5x - 2y = 10$$

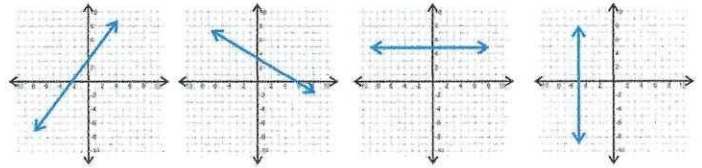
7. Solve for x : $8.2x + 2.2 = 4.4x + 28.8$

8. If Nick walks at a speed of 45.5 miles in 7 hours, how many miles does Nick walk per hour?

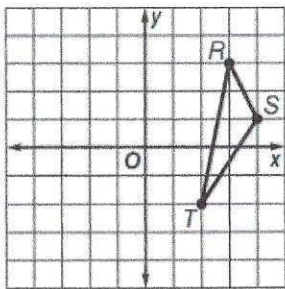
9. What is the solution to the equation below?

$$\frac{6}{7}(7x - 21) = 30$$

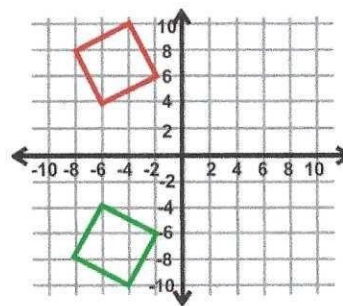
10. Which of the following graphs shows a line with a zero slope?



11. If you translate the figure four units left and two units down, what are the coordinates of R' ?



12. The figures below are transformations of one another. How was the square in quadrant II transformed to make the square in quadrant III?



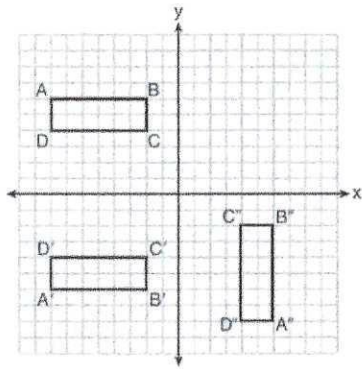
13. What are the coordinates of B' , the image of $B(0, 5)$ after a dilation with a scale factor of 5?

14. What is the image of $(8, 5)$ under a dilation of 4?

15. Under what type of transformation can the figures have different areas?

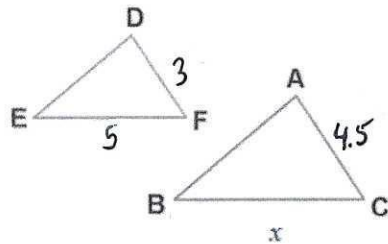
16. Point A has coordinates $(2, 8)$. After a dilation, the coordinates of point A' are $(12, 48)$. What is the scale factor for the dilation?

17. Which sequence of transformations is performed so that Figure ABCD is congruent to Figure A'B'C'D'?



18. What is the image of Point A(-3,-8) when rotated 180° about the origin?

19. Find the missing side length, x , to the nearest tenth.



20. Triangle ABC is translated 6 units right and 3 units down. What are the coordinates of A' ?

