8th grade math final

Name_____ Date_____

Mrs. Roumbos 8R Period_____

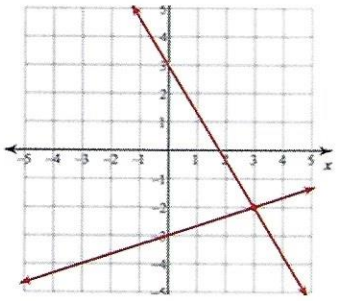
Classwork Day 4

1. How many solutions does the following equation have?

$3x + 6 = 3x + 7$

**Steps:_____

2. What is the solution to the system of equations is graphed on the set of axes shown?

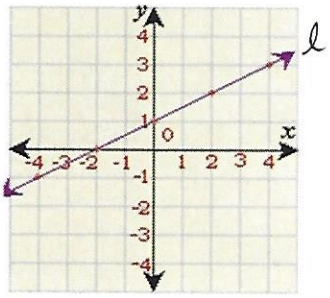


**Steps:_____

3. Does (4,6) lie on the graph of the equation $y = 2x - 2$?

**Steps:_____

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



** Steps:_____

5. What is the <u>equation</u> for the line passing through the points (7, 0) and (0, 8)

**Steps:_____

6. Solve the following system for x & y.

$$8x + 3y = 5$$
$$2x - 3y = 5$$

** Steps:_____

7. Solve for x: $6.2x + 8.7 = 1.8x + 43.9$

** Steps:_____

8. If Nick walks at a speed of 12.8 miles in 4 hours, how many miles does Nick walk per hour?

**Steps:_____

9. What is the solution to the equation below?

$$\frac{3}{8}(8x-16)=6$$

**Steps:_____

10. Draw a line with a slope of zero.

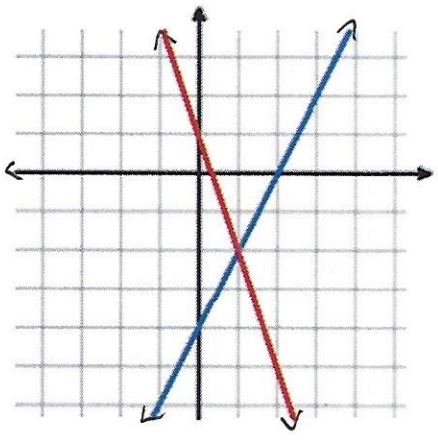
**Steps:_____

Now you try!

11. How many solutions does the following equation have?

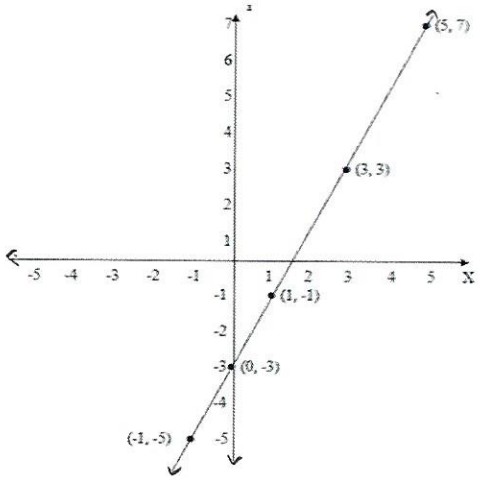
2x + 5 = 2x + 4

12. What is the solution to the system of equations is graphed on the set of axes shown?



13. Does (2,4) lie on the graph of the equation $y=3x-2$?

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



15. What is the <u>equation</u> for the line passing through the points (4, 0) and (0, 6)

16. Solve the following system for x & y.

$$4x + 2y = 10$$
$$2x - 2y = 8$$

17. Solve for x: $4.2x + 6.4 = 1.1x + 12.6$

18. If Mary walks at a speed of 27 miles in 6 hours, how many miles does Mary walk per hour?

19. What is the solution to the equation below?

$$\frac{2}{6}(6x-18)=10$$

20. Which of the lines below has a slope of zero?