## Final Exam review Term 3 Chapter 7

Solve by Graphing:

1. 
$$y = x + 4$$

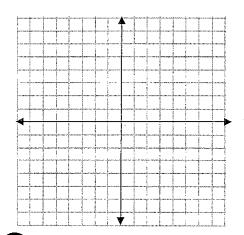
$$y = 4x + 1$$

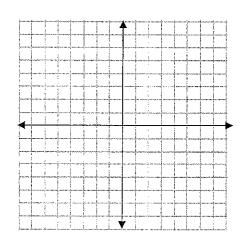
2. 
$$y = 1$$

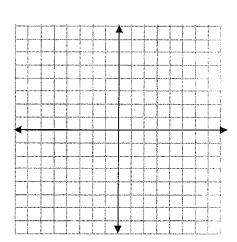
$$y = x$$

$$3. y = \frac{1}{2}x + 1$$

$$y = -3x + 8$$







Without graphing, tell whether the system has one solution, no solution, or infinitely many solutions. Hint: make sure the equations are in y = mx + b form.

4. 
$$y = -3x + 7$$

$$y = -3x - 4$$

5. 
$$x + y = 4$$

$$2x + 2y = 8$$

6. 
$$y = 2x + 1$$

$$2x + y = -8$$

Solution:

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Solve each system using any method and circle your answer.

$$7. y = 6x - 4$$

$$y = -2x + 28$$

8. 
$$m = 4n + 11$$

$$-6n + 8m = 36$$

$$9.\ 2x + 5y = 17$$

$$6x - 5y = -9$$

$$10.\ 2x - 3y = 61$$

$$2x + y = -7$$

11. 
$$y = 2x$$

$$y = x - 1$$

$$12.\ 3x - 10y = -25$$

$$4x + 40y = 20$$

## Write a system of equations and solve the following problems:

13. The sum of two numbers is 20. Their difference is 4. Find the two numbers.

14. Suppose you invest \$12,000 in equipment to manufacture a new board game. Each game costs \$2.50 to manufacture and sells for \$18.00. How many games must you sell for your business to break even?

cases of juice and one case of bottled	undraisers to buy supplies. The math club spent \$135 buying six divided water. The science club spent \$110 buying four cases of juice and each did each case of juice and each case of water cost?
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16. For making a payment, Marie us and Marie used a total of 9 coins. H	sed dimes and quarters only. The payment was for a total of \$1.65, ow many dimes and quarters did she have?
17. At the football game, the ratio of How many of each gender are at the	of boys to girls is 5 to 3. There are 104 total people at the game. the game?
	and a second sec
18. The perimeter of a rectangle is 13 dimensions of the rectangle.	114 ft. Its length is three more than twice its width. Find the