# Algebra Semester 1 Review #2

Name \_\_\_\_\_

# Find the slope of the line that passes through the given points. 1. (2, -4) and (-3, 5) 2. (2, 8) and (2, 6) 3. (1, -3) and (4, -3)

#### Find the equation of the line given the following information.

4. slope = -2, y-intercept (0, 6) 5. slope = 
$$\frac{-1}{2}$$
, contains (-4, 3)

- 6. contains the points (1, 3) and (-4, 5) 7. contains the points (-2, 4) and (6, 0)
- 8. contains the point (4,-7) and is parallel to the line y = -2x - 59. contains the point (6,7) and is perpendicular to y = -3x + 2

10. contains the point (4, 10) and is parallel11. contains the point (3, 6) and isto the line y = 3x + 1perpendicular to  $y = \frac{-3}{2}x + 1$ 

Giv	e the slope and y-interc	cept for each.	
12.	y = 2x - 5	13. $2x - 3y = 9$	14. $x - 2y = 10$

**Tell if the given point is on the given line**. 15. (2,1); y = 2x - 316. (1, -1); y = 7x - 617. (0, 3); 2x + y = 4

### Graph each equation.

18. y = 2x - 3





20. 2x - y = 5



**Graph each inequality.** 21. y < 2x - 4











## Solve each system by graphing.

24. y = 4x - 5

$$y = -3x + 2$$









