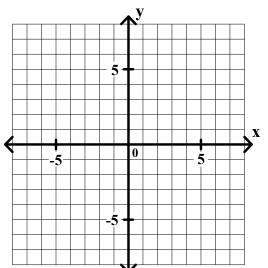
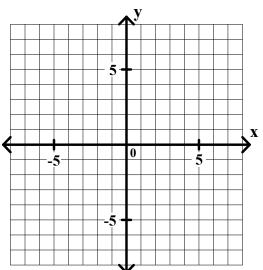
For each of the following linear equations in two variables: (a) find the x and y intercepts, (b) write the equation in slope-intercept form, and (c) graph the equation.

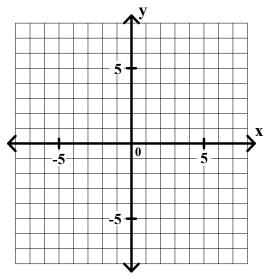
- 1. 2x + 3y = 12
- (a) x intercept: ____ y intercept: ____
- (b) slope intercept equation:
- (c)



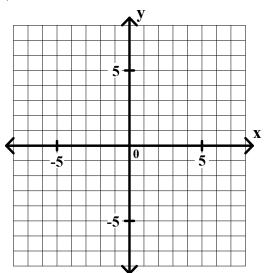
- 3. 3x + 5y = -15
- (a) x intercept: ____ y intercept: ____
- (b) slope intercept equation:
- (c)



- 2. 4x 3y = 9
- (a) x intercept: ____ y intercept: ____
- (b) slope intercept equation:
- (c)



- 4. 5x 3y = -3
- (a) x intercept: ____ y intercept: ____
- (b) slope intercept equation:
- (c)



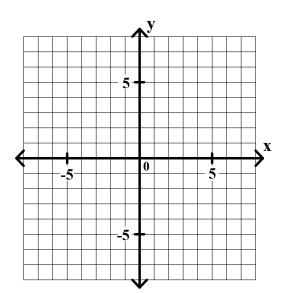
Graph each of the following. Label each graph with its equation.

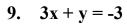
5.
$$-2x + 3y = -6$$

7.
$$x + 2y = -8$$

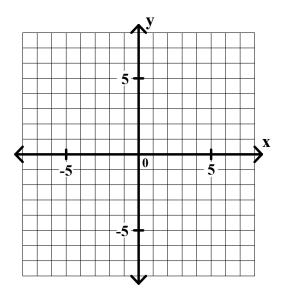
8. $x - 4y = 8$

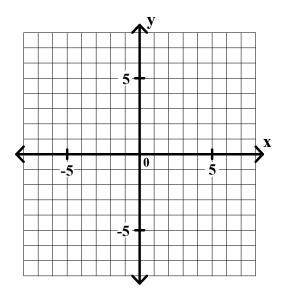
6.
$$7x + 4y = 0$$





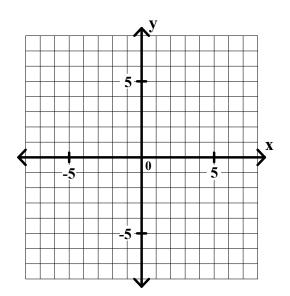
10. 5x - y = 2





11. x = 4

12. y = -3



Write the equation of each line described. If the line is oblique, use slope-intercept form.

13.	The horizontal line through (-4, -3).	
14.	The vertical line through (-4, -3).	
15.	The line with slope 0 through (5, 3).	
16.	The line with "no slope" through (5, 3).	
17.	The line with slope 3/4 and y-intercept -3.	
18.	The line with slope 3/5 through (0,-2).	
19.	The line through (0,-3) and (2,4).	

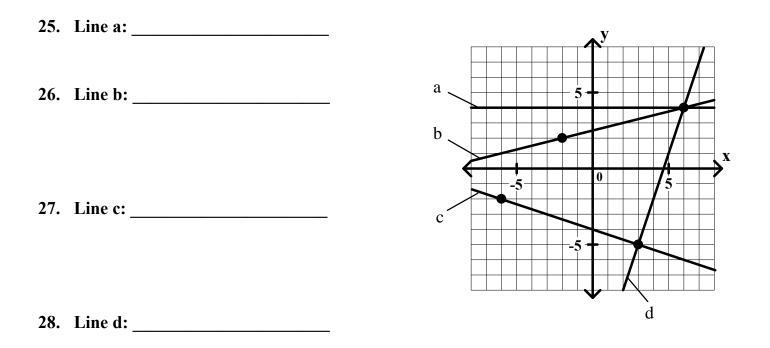
20. The line with slope -1/4 through (-4, -3).

21. The line with slope -3/5 through (2, 3).

Write the equation of each line described. If the line is oblique, use slope-intercept form.

- 22. The line through (-2, 3) and (-2, -1).
- **23.** The line through (-3, -4) and (6, 2).

24. The line through (-4, 5) and (2, -3).



Find the equation of each line described below. If the line is oblique, write the slope-intercept equation. Graph both equations (the given equation as well as your solution).

29. The line through (0, 5) that is parallel to 5x - 2y = 6.

30. The line through (0, -1) that is parallel to -4x + 3y = 9.

31. The line through (4, 3) that is parallel to x = -1.

32. The line through (-3, 2) that is parallel to y = -4.

33. The line through (-3, 0) that is parallel to x + y = 5.

34. The line through (-6, 0) that is parallel to 3x - 2y = 10.

Find the equation of each line described below. If the line is oblique, write the slope-intercept equation. Graph both equations (the given equation as well as your solution).

35.	The line through (0, 5) that is perpendicular to $5x - 2y = 6$.
36.	The line through (0, -1) that is perpendicular to -4x + 3y = 9
37.	The line through (4, 3) that is perpendicular to x = -1.
38.	The line through (-3, 2) that is perpendicular to y = -4.
39.	The line through (-3, 0) that is perpendicular to x + y = 5.
40.	The line through (-6, 0) that is perpendicular to $3x - 2y = 10$.