Section 1.6

Linear Equations in Two Variables

1. Graph each linear equation by plotting points:
(Similar to p.118 #42)

$$3x - \frac{5}{3}y = 2$$

2. Graph each linear equation by finding its intercepts:
(Similar to p.118 #48)

$$-5x + 3y = 15$$

3. Graph each linear equation by finding its intercepts:
(Similar to p.118 #50)

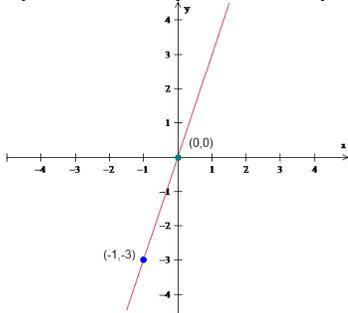$$\frac{1}{3}x + \frac{1}{2}y = 2$$

4. Graph each linear equation:
(Similar to p.118 #56)

$$x = 3$$

5. Graph each linear equation:
(Similar to p.118 #60)

$$4y + 5 = -11$$

6. Find the slope of the line:
(Similar to p.118 #62)

7. Plot each pair of points and graph the line containing them. Determine the slope of the line:
(Similar to p.118 #68)

$$(2,-3); (-4,5)$$

8. Plot each pair of points and graph the line containing them. Determine the slope of the line:
(Similar to p.118 #74)

$$(5,2); (5,-1)$$

9. Plot each pair of points and graph the line containing them. Determine the slope of the line:
(Similar to p.118 #76)

$$\left(\frac{7}{5},\frac{1}{3}\right); \left(\frac{3}{10},\frac{5}{6}\right)$$

10. Graph the line containing the given point and having slope m. Do not find the equation of the line:
(Similar to p.118 #78)

$$m = 3; (-2,1)$$

11. Graph the line containing the given point and having slope m. Do not find the equation of the line:
(Similar to p.118 #82)

$$m = \frac{2}{3}; (-1,-3)$$

12. Find an equation of the line with the given slope and containing the given point. Express your answer in slope-intercept form, if possible.: (Similar to p.119 #96)

$$m = 2; (3,-2)$$

13. Find an equation of the line with the given slope and containing the given point. Express your answer in slope-intercept form, if possible.: (Similar to p.119 #100)

$$m = \frac{-2}{5}; (2,-3)$$

14. Find an equation of the line with the given slope and containing the given point. Express your answer in slope-intercept form, if possible.: (Similar to p.119 #102)

$$m = 0; (4,-1)$$

15. Find an equation of the line containing the given points. Express your answer in slope-intercept form, if possible. (Similar to p.119 #106)

$$(1,2); (2,5)$$

16. Find an equation of the line containing the given points. Express your answer in slope-intercept form, if possible. (Similar to p.119 #112)

$$(-4,1); (1,-2)$$

17. Find the slope and y-intercept of each line. Graph the line. (Similar to p.119 #116)

$$y = 5x - 1$$

18. Find the slope and y-intercept of each line. Graph the line.
(Similar to p.119 #122)

$$8x + 4y = 16$$

19. Find the slope and y-intercept of each line. Graph the line.
(Similar to p.119 #126)

$$y = -3$$