

**5-3B Practice**

Form G

**Slope-Intercept Form****Find the slope and y-intercept of the graph of each equation.**

1.  $y = 3x - 5$

2.  $y = -5x + 13$

3.  $y = -x - 1$

4.  $y = -11x + 6$

5.  $y = -5$

6.  $y = \frac{1}{2}x + 6$

7.  $y = -6.75x + 8.54$

8.  $y = -\frac{2}{3}x - \frac{1}{9}$

9.  $y = 2.25$

**Write an equation of a line with the given slope  $m$  and y-intercept  $b$ .**

10.  $m = -1, b = 3$

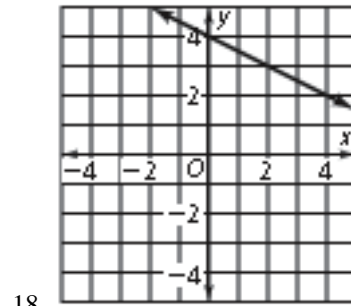
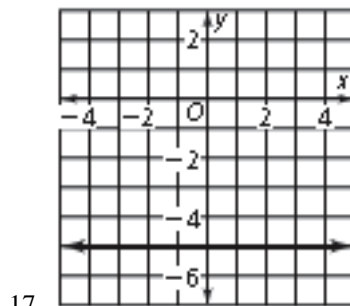
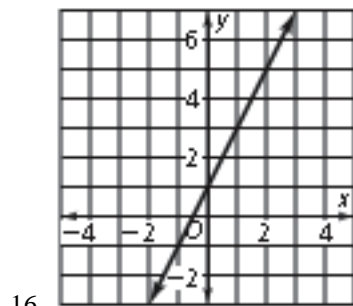
11.  $m = 4, b = -2$

12.  $m = -5, b = -8$

13.  $m = 0.25, b = 6$

14.  $m = 0, b = -11$

15.  $m = 1, b = \frac{3}{8}$

**Write an equation in slope-intercept form of each line.****Write an equation in slope-intercept form of the line that passes through the given points.**

19.  $(3, 5)$  and  $(0, 4)$

20.  $(2, 6)$  and  $(-4, -2)$

21.  $(-1, 3)$  and  $(-3, 1)$

22.  $(-7, 5)$  and  $(3, 0)$

23.  $(10, 2)$  and  $(-2, -2)$

24.  $(0, -1)$  and  $(5, 6)$

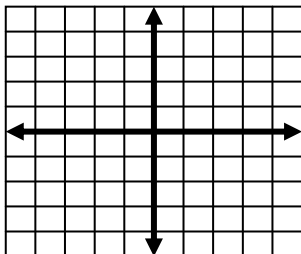
25.  $(3, 2)$  and  $(-1, 6)$

26.  $(-4, -3)$  and  $(3, 4)$

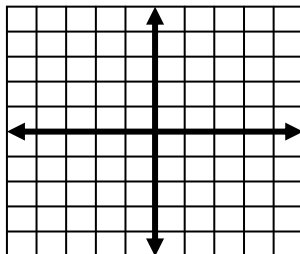
27.  $(2, 8)$  and  $(-3, 6)$

Graph each equation.

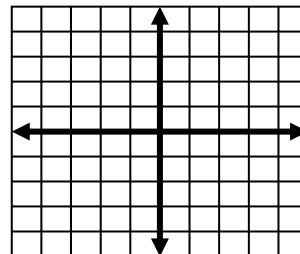
28.  $y = x + 3$



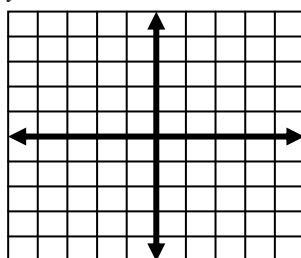
29.  $y = 4x - 1$



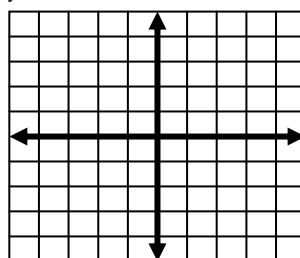
30.  $y = -x + 6$



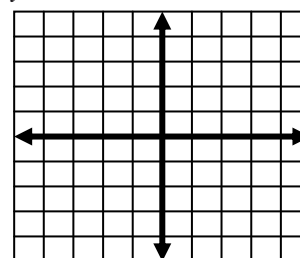
31.  $y = 3x - 2$



32.  $y = -5x + 1$



33.  $y = -7x - 4$



34. Hudson is already 40 miles away from home on his drive back to college. He is driving 65 mi/h. Write an equation that models the total distance  $d$  travelled after  $h$  hours. What is the graph of the equation?

35. When Phil started his new job, he owed the company \$65 for his uniforms. He is earning \$13 per hour. The cost of his uniforms is withheld from his earnings. Write an equation that models the total money he has  $m$  after  $h$  hours of work. What is the graph of the equation?

Find the slope and the y-intercept of the graph of each equation.

36.  $y + 4 = -6x$

37.  $y + \frac{1}{2}x = -4$

38.  $3y - 12x + 6 = 0$

39.  $y - 5 = \frac{1}{3}(x - 9)$

40.  $y - \frac{2}{5}x = 0$

41.  $2y + 6a - 4x = 0$