

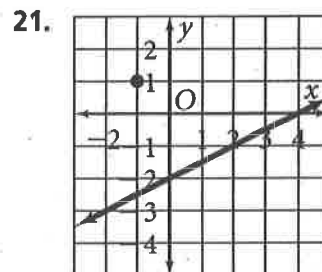
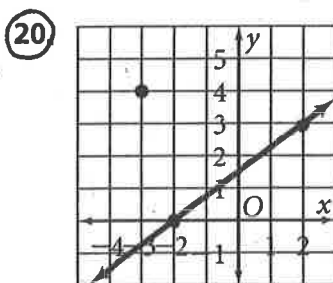
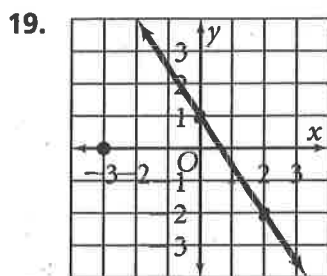
# 5.6 B Wk 11 Block Homework

Find the slope of a line parallel to the graph of each equation.

1.  $y = 4x + 2$       2.  $y = \frac{2}{7}x + 1$       3.  $y = -9x - 13$       4.  $y = -\frac{1}{2}x + 1$   
 5.  $6x + 2y = 4$       6.  $y - 3 = 0$       7.  $-5x + 5y = 4$       8.  $9x - 5y = 4$   
 9.  $-x + 3y = 6$       10.  $6x - 7y = 10$       11.  $x = -4$       12.  $-3x - 5y = 6$

Write an equation for the line that is perpendicular to the given line and that passes through the given point.

13.  $(6, 4); y = 3x - 2$       14.  $(-5, 5); y = -5x + 9$       15.  $(-1, -4); y = \frac{1}{6}x + 1$   
 16.  $(1, 1); y = -\frac{1}{4}x + 7$       17.  $(12, -6); y = 4x + 1$       18.  $(0, -3); y = -\frac{4}{3}x - 7$



Write an equation for the line that is parallel to the given line and that passes through the given point.

22.  $(3, 4); y = 2x - 7$       23.  $(1, 3); y = -4x + 5$       24.  $(4, -1); y = x - 3$   
 25.  $(4, 0); y = \frac{3}{2}x + 9$       26.  $(-8, -4); y = -\frac{3}{4}x + 5$       27.  $(9, -7); -7x - 3y = 3$   
 28.      29.      30.

Tell whether the lines for each pair of equations are *parallel*, *perpendicular*, or *neither*.

31.  $y = 3x - 8$   
 $3x - y = -1$   
 32.  $3x + 2y = -5$   
 $y = \frac{2}{3}x + 6$   
 33.  $y = -\frac{5}{2}x + 11$   
 $-5x + 2y = 20$   
 34.  $9x + 3y = 6$   
 $3x + 9y = 6$   
 35.  $y = -4$   
 $y = 4$   
 36.  $x = 10$   
 $y = -2$