

**Practice****Writing Equations in Slope-Intercept Form**

**Write an equation in slope-intercept form of the line with each slope and y-intercept.**

1.  $m = -3, b = 5$

2.  $m = 6, b = 2$

3.  $m = 4, b = -1$

4.  $m = 0, b = 4$

5.  $m = \frac{2}{5}, b = -7$

6.  $m = -\frac{3}{4}, b = 8$

7.  $m = -\frac{4}{3}, b = -2$

8.  $m = -5, b = 6$

9.  $m = \frac{1}{2}, b = -9$

**Write an equation in slope-intercept form of the line having the given slope and passing through the given point.**

10.  $m = 3, (4, 2)$

11.  $m = -2, (-1, 3)$

12.  $m = 4, (0, -7)$

13.  $m = -\frac{3}{5}, (-5, -3)$

14.  $m = \frac{1}{4}, (-8, 6)$

15.  $m = -\frac{2}{3}, (9, -4)$

16.  $m = \frac{5}{6}, (6, -6)$

17.  $m = 0, (-8, -7)$

18.  $m = -\frac{3}{2}, (-8, 9)$

**Write an equation in slope-intercept form of the line passing through each pair of points.**

19.  $(1, 3)$  and  $(-3, -5)$

20.  $(0, 5)$  and  $(3, -4)$

21.  $(2, 1)$  and  $(3, 6)$

22.  $(-3, 0)$  and  $(6, -6)$

23.  $(4, 5)$  and  $(-5, 5)$

24.  $(0, 6)$  and  $(-4, 3)$

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

26.  $(-7, -6)$  and  $(-5, -3)$

27.  $(6, -4)$  and  $(0, 2)$