Name: _____

Writing Equations in Slope – Intercept Form

Exercise 1: Write an equation in slope-intercept form of the line with the given slope and *y*-intercept.

1) $m = 3, b = 3$

2) $m = -2, b = 5$

3) $m = 1, b = 5$

4) $m = -2, b = -1$

5) $m = 5, b = -7$

6) $m = -4, b = -5$

7) $m = -1, b = 9$

8) $m = 3, b = 0$

9) $m = 0, b = -10$

10) $m = 0, b = 0$

11) $m = 7, b = 2$

12) $m = 3, b = 0$

13) $m = 0, b = 1$

14) $m = \dfrac{1}{2}, b = -\dfrac{1}{2}$

15) $m = \dfrac{3}{5}, b = -\dfrac{2}{4}$

16) $m = -\dfrac{2}{3}, b = \dfrac{2}{5}$

17) $m = \dfrac{4}{5}, b = \dfrac{3}{4}$

Exercise 2: Write an equation in slope-intercept form of the line having the given slope and passing through the given point.

1) $m = 3; (5, -2)$

2) $m = -2; (0, -2)$

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

4) $m = 4; (5, -5)$

5) $m = 4; (0, 7)$

6) $m = 1; (1, 1)$

7) $m = 5; (-1, -3)$

8) $m = 6; (1, -4)$

9) $m = 8; (3, -3)$

10) $m = -2; (5, 6)$

11) $m = 7; (-4, 2)$

12) $m = \dfrac{1}{2}; (3, 1)$

13) $m = -\dfrac{1}{2}; (-4, -2)$

14) $m = \dfrac{3}{4}; (-6, -2)$

15) $m = \dfrac{2}{3}; \left(\dfrac{5}{2}, -\dfrac{1}{2}\right)$

16) $m = -6; \left(\dfrac{1}{4}, -\dfrac{1}{3}\right)$