

## Week 5

**Write the slope-intercept form of the equation of the line through the given point with the given slope.**

1) through:  $(-2, -1)$ , slope =  $\frac{4}{3}$

2) through:  $(-3, 5)$ , slope =  $-\frac{1}{3}$

3) through:  $(-3, -1)$ , slope = 0

4) through:  $(-4, 4)$ , slope =  $-2$

5) through:  $(0, 0)$ , slope = 1

**Write the slope-intercept form of the equation of the line through the given points.**

6) through:  $(-5, -1)$  and  $(-4, -1)$

7) through:  $(4, -2)$  and  $(3, -4)$

8) through:  $(2, -1)$  and  $(0, 4)$

9) through:  $(-3, -1)$  and  $(5, 0)$

10) through:  $(0, -2)$  and  $(4, 1)$

**Write the slope-intercept form of the equation of the line through the given point with the given slope.**

1) through:  $(-2, -1)$ , slope =  $\frac{4}{3}$

$$y = \frac{4}{3}x + \frac{5}{3}$$

2) through:  $(-3, 5)$ , slope =  $-\frac{1}{3}$

$$y = -\frac{1}{3}x + 4$$

3) through:  $(-3, -1)$ , slope = 0

$$y = -1$$

4) through:  $(-4, 4)$ , slope =  $-2$

$$y = -2x - 4$$

5) through:  $(0, 0)$ , slope = 1

$$y = x$$

**Write the slope-intercept form of the equation of the line through the given points.**

6) through:  $(-5, -1)$  and  $(-4, -1)$

$$y = -1$$

7) through:  $(4, -2)$  and  $(3, -4)$

$$y = 2x - 10$$

8) through:  $(2, -1)$  and  $(0, 4)$

$$y = -\frac{5}{2}x + 4$$

9) through:  $(-3, -1)$  and  $(5, 0)$

$$y = \frac{1}{8}x - \frac{5}{8}$$

10) through:  $(0, -2)$  and  $(4, 1)$

$$y = \frac{3}{4}x - 2$$