

## Week 6

Date \_\_\_\_\_ Hour \_\_\_\_\_

**Write the slope-intercept form of the equation of the line described.**

1) through:  $(-5, 0)$ , parallel to  $y = -\frac{3}{5}x$

2) through:  $(4, -2)$ , parallel to  $y = \frac{1}{4}x + 3$

3) through:  $(-3, -1)$ , parallel to  $y = -x + 3$

4) through:  $(-1, 4)$ , parallel to  $y = -5x - 3$

5) through:  $(2, -4)$ , parallel to  $y = \frac{7}{3}x + 5$

6) through:  $(-3, 4)$ , perp. to  $y = 3x + 1$

7) through:  $(-3, -1)$ , perp. to  $y = -x - 4$

8) through:  $(-4, 1)$ , perp. to  $y = \frac{2}{3}x + 5$

9) through:  $(4, 3)$ , perp. to  $y = -\frac{4}{7}x + 4$

10) through:  $(-4, -1)$ , perp. to  $y = -2x - 1$

## Week 6

Write the slope-intercept form of the equation of the line described.

1) through:  $(-5, 0)$ , parallel to  $y = -\frac{3}{5}x$

$$y = -\frac{3}{5}x - 3$$

2) through:  $(4, -2)$ , parallel to  $y = \frac{1}{4}x + 3$

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

3) through:  $(-3, -1)$ , parallel to  $y = -x + 3$

$$y = -x - 4$$

4) through:  $(-1, 4)$ , parallel to  $y = -5x - 3$

$$y = -5x - 1$$

5) through:  $(2, -4)$ , parallel to  $y = \frac{7}{3}x + 5$

$$y = \frac{7}{3}x - \frac{26}{3}$$

6) through:  $(-3, 4)$ , perp. to  $y = 3x + 1$

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

7) through:  $(-3, -1)$ , perp. to  $y = -x - 4$

$$y = x + 2$$

8) through:  $(-4, 1)$ , perp. to  $y = \frac{2}{3}x + 5$

$$y = -\frac{3}{2}x - 5$$

9) through:  $(4, 3)$ , perp. to  $y = -\frac{4}{7}x + 4$

$$y = \frac{7}{4}x - 4$$

10) through:  $(-4, -1)$ , perp. to  $y = -2x - 1$

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