

## 13.3 Parallel Through a Given Point

Due Date \_\_\_\_\_ Period \_\_\_\_\_

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

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

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

3) through:  $(-1, 0)$ , parallel to  $y = -5x + 2$

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

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

6) through:  $(1, -2)$ , parallel to  $y = -6x + 3$

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

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

9) through:  $(-5, 3)$ , parallel to  $x = 0$

10) through:  $(-3, 5)$ , parallel to  $y = -\frac{1}{8}x - 1$

**Try to find the following which should be perpendicular.**

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

12) through:  $(4, 0)$ , perp. to  $y = -\frac{5}{2}x - 4$