

## 4.2 Writing an Equation given two points HW-1

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

1) What is the y coordinate of a point where a graph crosses the y axis called?

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

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

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

4) through:  $(2, 1)$ , slope = undefined

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

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

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

7) through:  $(3, -5)$  and  $(-5, 0)$

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

9) through:  $(-5, 3)$  and  $(0, 4)$

10) through:  $(0, 5)$  and  $(-2, 1)$

11) through:  $(-1, -4)$  and  $(0, 4)$

12) through:  $(2, 4)$  and  $(-1, 2)$