Algebra II Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graphing Linear Equations and Writing Equations Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour\_\_\_\_\_\_\_\_\_\_

Homework #1

**Find the slope of the line through each pair of points.**

1. (-3, 9) and (0,3) 2) (-3,5) and (4,5)

**Write an equation for each line.**

3) m = 3 and the y-intercept is (0,2) 4) m = 0 and the y-intercept is (0,-2)

Write each equation in slope intercept form. Then find the slope and y-intercept of each line. Then graph the line.

5) 5x + y = 4 6) -4x + 2y = 8



Slope(m):\_\_\_\_\_\_\_

y-int (b):\_\_\_\_\_\_

Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_

Slope(m):\_\_\_\_\_\_\_

y-int (b):\_\_\_\_\_\_

Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_

7) -12x + 6y = 30

Slope(m):\_\_\_\_\_\_\_

y-int (b):\_\_\_\_\_\_

Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_

8) 5x – 2y = -4

Slope(m):\_\_\_\_\_\_\_

y-int (b):\_\_\_\_\_\_

Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_



 9) -3x – 2y = 10

Slope(m):\_\_\_\_\_\_\_

y-int (b):\_\_\_\_\_\_

Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_