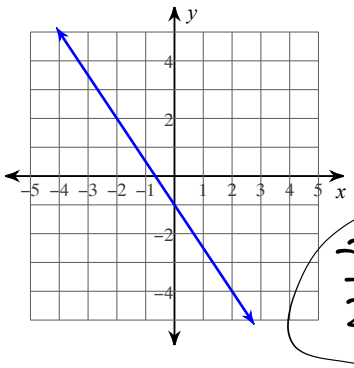
8th Grade Ten for Friday Name_____

Week 1: Jan. 9 - Jan. 13

Date_____

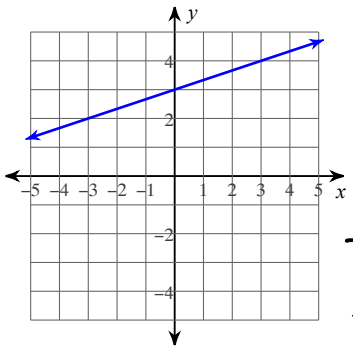
Write each graph in slope-intercept form: y = mx + b

1)



$-\frac{3}{2}x - 1$

2)



$\frac{1}{3}x + 3$

Find the slope of the line through each pair of points. *Hint: Use slope formula

3) (15, 15), (−7, 15)

$\frac{15 - 15}{-7} \quad \frac{0}{-22}$

4) (4, −18), (−13, −12)

$\frac{-12 - (-18)}{-13 - 4} \quad \frac{6}{-17}$

Find the slope of each line.

5) $-y + x = 3$

$-x \quad -x + 3$

$-1x \quad -1 \quad -1$

$y = x - 3$

$m = 1$

6) $0 = 3y - 5x - 6$

$-3y \quad -3y$

$\frac{3y}{3} = \frac{5x}{3} + \frac{6}{3}$

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

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

7) $3x + 8y = 32$

$\frac{8y}{8} = -\frac{3x}{8} + \frac{32}{8}$

$y = -\frac{3}{8}x + 4$

8) $6x - 5y = -2$

$y = \frac{6}{5}x - \frac{2}{5}$

Solve each system by graphing. State the number of solutions: Infinite, One, No Solution

9) $y = -x + 3$
$y = -5x - 1$

No solution

10) $3x - y = 1$
$3x - y = 3$

$+y = +3$

One