Algebra 1 – Homework

Name: KEY

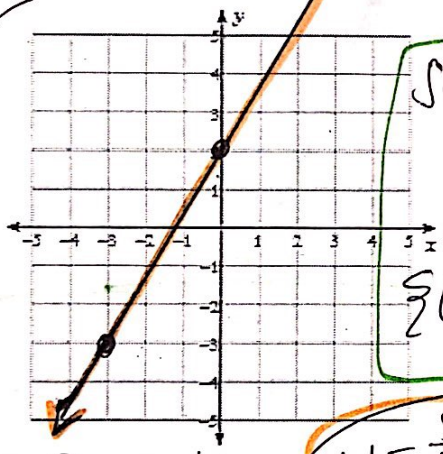
Unit 4- Solving Systems of Equations Graphically

Period: 3 8 **Date:** 1/10/18

Solve each system by graphing.

1) $y = 2 + \frac{5}{3}x$ $m = \frac{5}{3}$ y int: (0,2)

$5x - 3y = -6$



same line

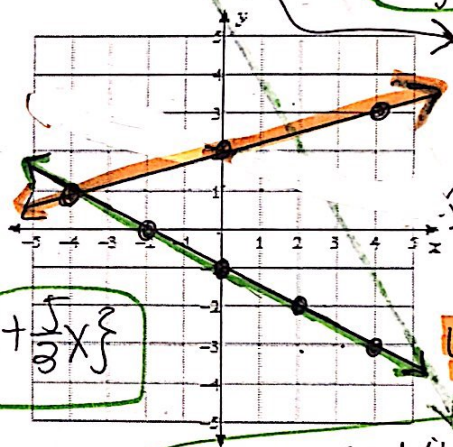
solution: $\{(x,y) \mid y = 2 + \frac{5}{3}x\}$

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

$5x - 3y = -6$
$-5x \quad -5x$
$-3y = -5x - 6$

2) $x + 2y = -2$
$x + 8 - 4y = 0$

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



$x + 8 - 4y = 0$
$+4y \quad +4y$
$\frac{x + 8}{4} = \frac{4y}{4}$
$y = \frac{1}{4}x + 2$

intersecting lines, not ⊥

solution: (4,1)