Cornell Notes	Topic/Objective: Review for Quiz	Name:
		Class/Period: 4th
		Date: 9/16/16

Essential Question: What do I need to know for the quiz

Questions:

Notes:

Fraction } look at warmup
Radicals }

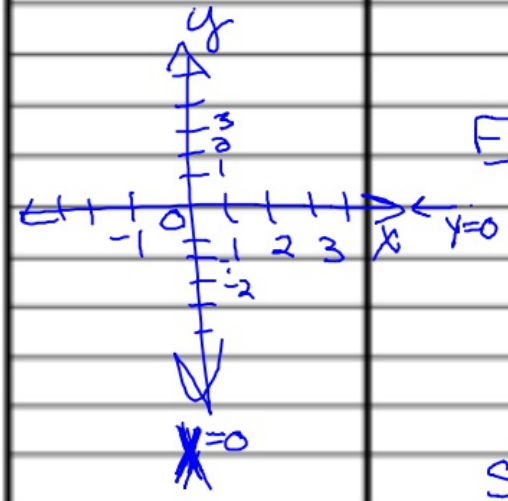
Checking solutions to linear equations — x, y

is ordered pair (2, 7) a solution to $3x - 4y = 9x + 2y$?

$3(2) - 4(7) \stackrel{?}{=} 9(2) + 2(7)$

$-22 \neq 32$

NO



Finding the intercepts of a graph

Find the intercepts for the graph of $4x + 7y = 14$

(3.5, 0) (y=0) → x-int 3.5 or 7/2

(x=0) → y-int 2

Slope and Slope-intercept form of a line

Given two points (x_1, y_1) and (x_2, y_2), the slope (m) of the line between the two is found to be: $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x}$

(-2, 5) and (3, 9)

$m = \frac{5-9}{-2-3} = \frac{-4}{-5} = \frac{4}{5}$

Questions:	Notes:
	Slope-intercept form of the line
	$(-2,5)$ and $(3,9)$
	x_1 y_1
	$y = mx + b$
	slope intercept
	point-slope form $y - y_1 = m(x - x_1)$
	$y - 9 = \frac{4}{5}(x - 3)$
	$y - 9 = \frac{4}{5}x - \frac{12}{5}$
	$+9 \quad +9$
	$y = \frac{4}{5}x - \frac{12}{5} + 9$
	$y = \frac{4}{5}x + \frac{33}{5}$