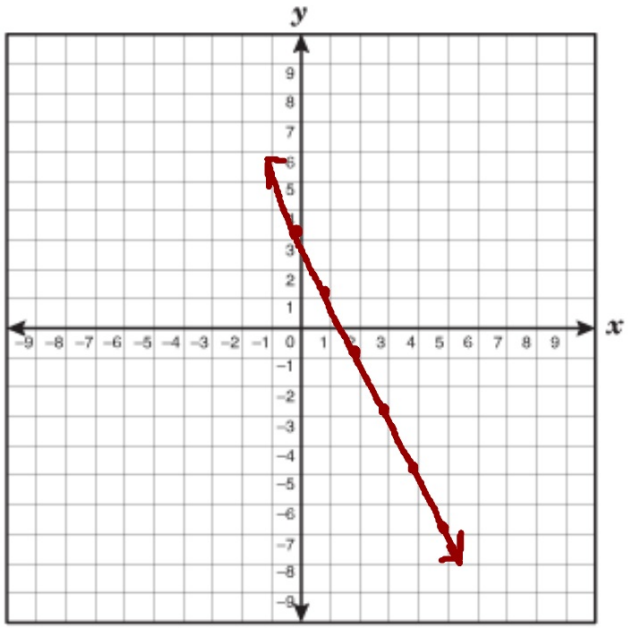
Lesson 5-3A - Standard Form

Algebra - January 11, 2012

Put your name on the back

1)Transform and Graph the line $8x + 4y = 12$



$8x + 4y = 12$

$-8x \qquad -8x$

$\frac{4y}{4} = \frac{-8x+12}{4}$

$y = \frac{-2x}{1} + 3$

1) Transform "standard form" to slope-intercept form.

2) Graph vertical and horizontal lines.

Transform "standard form" to slope-intercept form.

In standard form, the x and the y are on the same side.

standard form

$3x + y = 5$

$-3x \quad -3x$

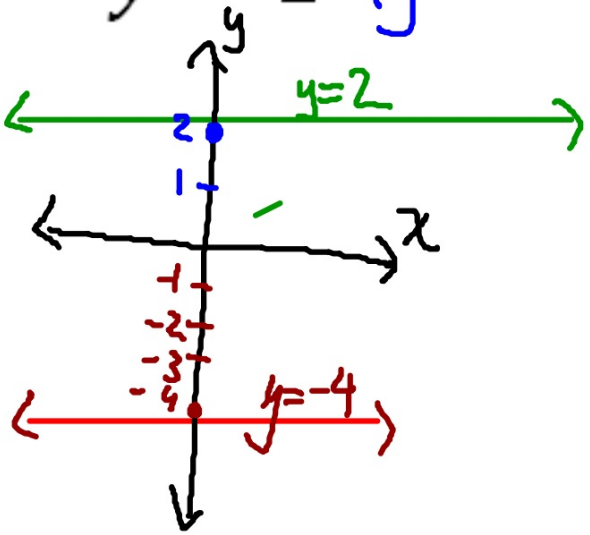
$y = -3x + 5$

slope-intercept form

$y = -3x + 5$

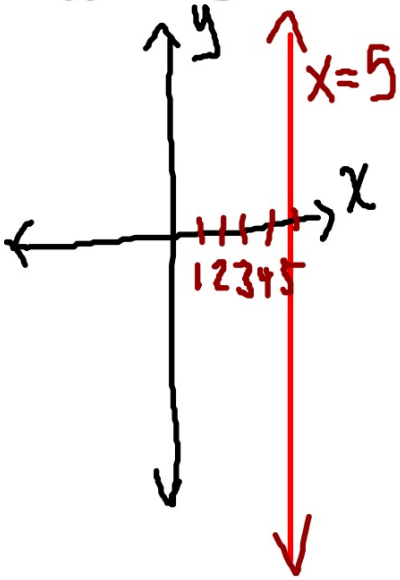
Horizontal Lines

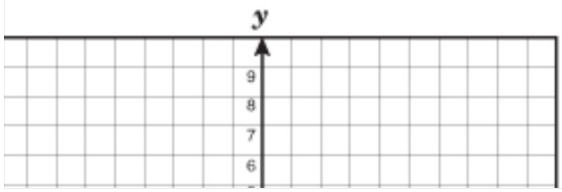
$y = 2$ $(y = 0x + 2)$

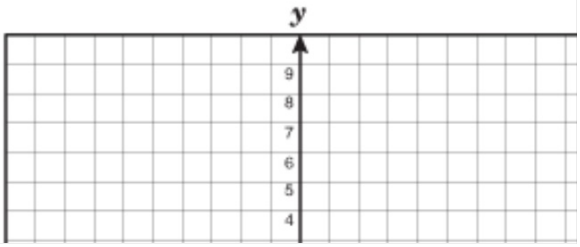


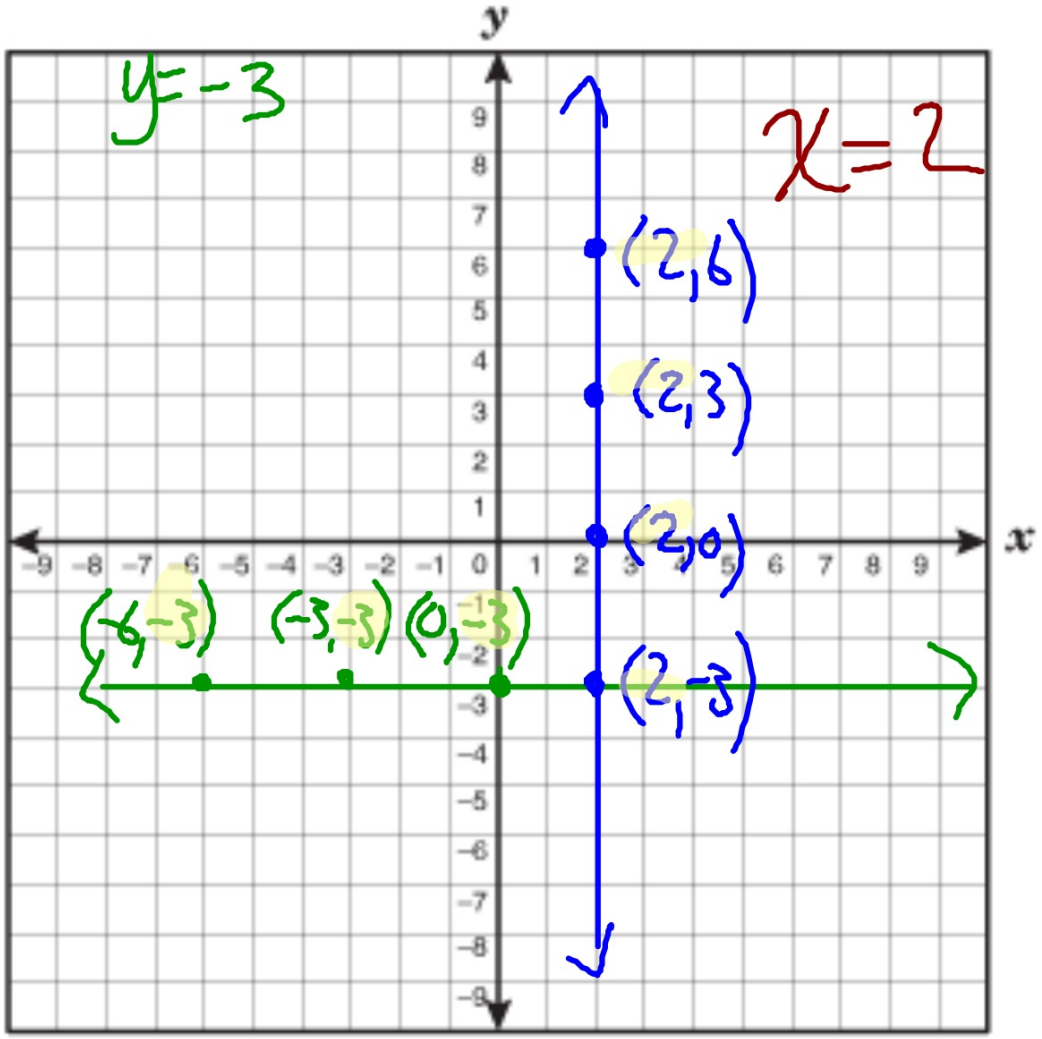
Vertical Lines

$x = 5$








y
x
y=-3
x=2
(2,6)
(2,3)
(2,0)
(2,-3)
(-6,-3)
(-3,-3)
(0,-3)

$$2x - 4y = 12$$
$$-2x \quad\quad -2x$$
$$-4y = -2x + 12$$
$$\frac{-4y}{-4} = \frac{-2x}{-4} + \frac{12}{-4}$$
$$y = \frac{1}{2}x - 3$$

$m =$

$b =$

Quiz Review

1) Slope

2) Graphing using slope-intercept form (y=mx+b)