Homework Review - 4.5

Quiz!! 4.1 - 4.5, 4.7

Thursday, 10/13

Foldables -

Study / practice aid

Use on quiz (with approval)

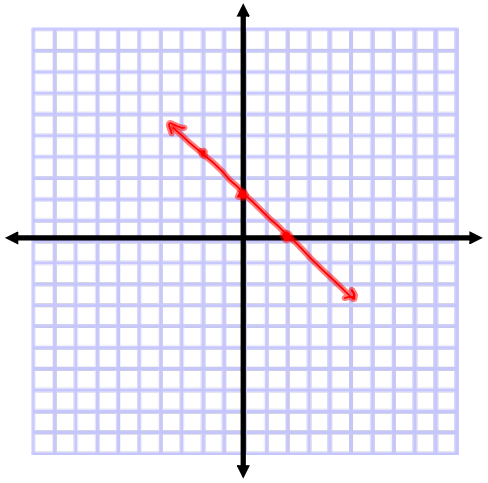
NOT for use on test!!

Using two points to graph a line:

1. Solve for y
2. Make a table – pick 2 or 3 values for x and calculate y
3. Graph the points & connect

$$2x + 4y = 8 - 2x$$
$$-2x \qquad\qquad -2x$$
$$\frac{4y}{4} = \frac{-4x}{4} + \frac{8}{4}$$
$$y = -x + 2$$

x	y
-2	4
0	2
2	0



Using x & y intercepts to graph a line:

1. Set $y=0$ and solve for x to find the x-intercept $(x, 0)$
2. Set $x=0$ and solve for y to find the y-intercept $(0, y)$
3. Graph the points & connect

$6x + -3y = 12$

$6x + -3(0) = 12$

$\frac{6x}{6} = \frac{12}{6}$

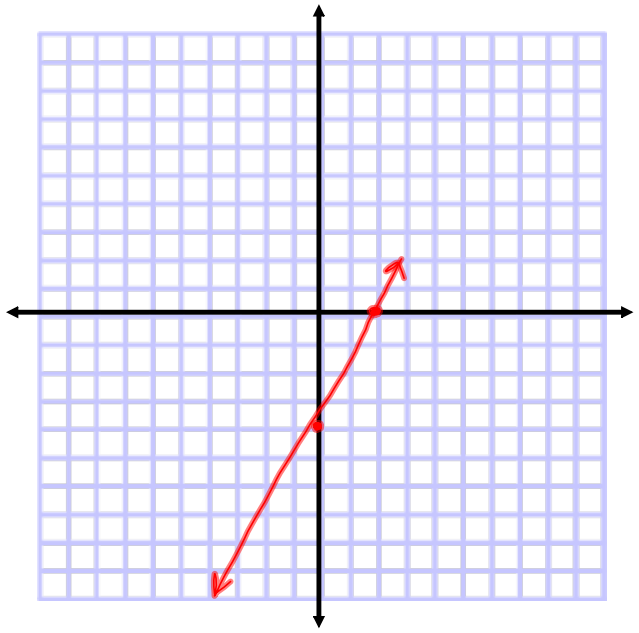
$x = 2$ $(2,0)$

$6x + -3y = 12$

$6(0) + -3y = 12$

$\frac{-3y}{-3} = \frac{12}{-3}$

$y = -4$ $(0,-4)$



Using slope-intercept form to graph a line:

1. Solve the equation for y $(y=mx+b)$
2. Plot the y-intercept $(0, b)$
3. Use the slope $\left(m=\frac{\text{rise}}{\text{run}}\right)$ to find another point
4. Connect the points

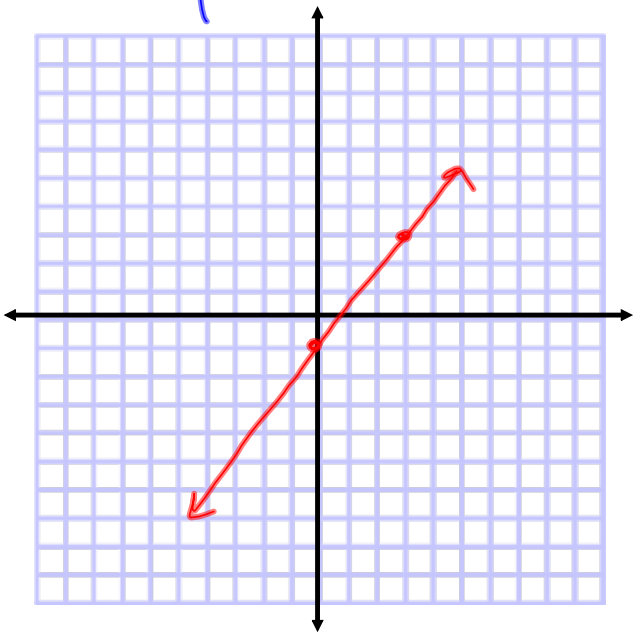
$3y-2x=-3+2x$

$+2x \quad +2x$

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

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

$(0,-1)$



$$m = \frac{y_2 - y_1}{x_2 - x_1}$$