DECEMBER 2, 2011

~~GET OUT YOUR HOMEWORK:~~

LIME WORKSHEET
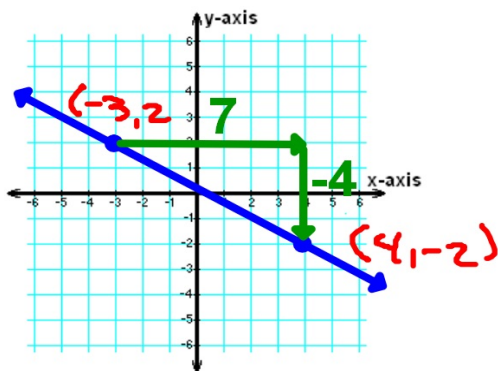
due on Monday

Project is due
on Friday the 9th

12/2 - Finding Slopes from Points

yesterday:

$$(-3,2) \text{ and } (4,-2)$$

$$\frac{-2-2}{4+(+3)}$$

$$= \frac{-4}{7}$$

$$m = \frac{-4}{7}$$

Slope formula:

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

$x_1 = x$ from the 1st point

$x_2 = x$ from the 2nd point

$y_1 = x$ from the 1st point

$y_2 = x$ from the 2nd point

Find the slope of the line that goes through these 2 points:

$$\overset{x_1 \, y_1}{(2,5)} \; \overset{x_2 \, y_2}{(6,3)}$$

$$m = \frac{3-5}{6-2}$$

$$= -\frac{2}{4}$$

$$= -\frac{1}{2}$$

$$(4,-1)\,(-7,0)$$

$$m = \frac{0 - (-1)}{-7 - 4}$$

$$= \frac{1}{-11}$$

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

$(5,-9)\,(-7,3)$

$$m = \frac{3 - (-9)}{-7 - 5}$$

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

$$= -1$$

$(-8,-10)\,(6,-4)$

$$m = \frac{-4 + (10)}{6 + (+8)}$$

$$= \frac{6}{14}$$

$$= \frac{3}{7}$$

$(-6,5)\,(-7,8)$

$$m = \frac{8 - 5}{-7 + (+6)}$$

$$= \frac{3}{-1}$$

$$= -3$$

HOMEWORK:

Yellow WORKSHEET 2

DUE Tuesday