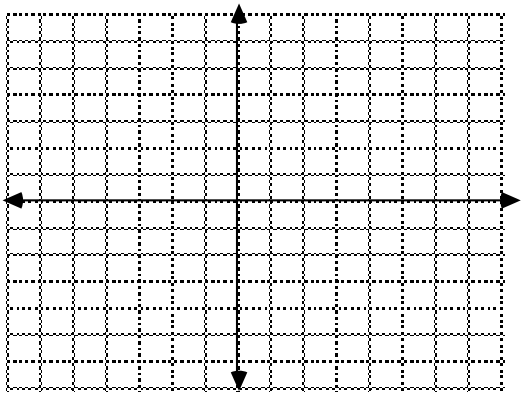
Math 125 - LINES & SLOPE

There are different ways to determine the slope of a line, and there are different approaches to graphing lines. Do the following problems in order, taking care to follow directions.

(1) Graph the line $3x - 2y = 6$ by finding ordered pair solutions.



(2) Using your graph in #1, find the slope by counting the squares from one point to the next. Slope = $\frac{\text{change in } y}{\text{change in } x}$

(3) Find the slope by using two of the points you found in #1 and the equation $m = \frac{y_2 - y_1}{x_2 - x_1}$

(4) Find the slope directly from the equation $3x-2y=6$. (Solve the equation for y, then the slope will be the coefficient of x.)

(5) Graph the line using only one of the points you found in #1 and using the slope to "stair-step" to other points.