Slope from 2 points
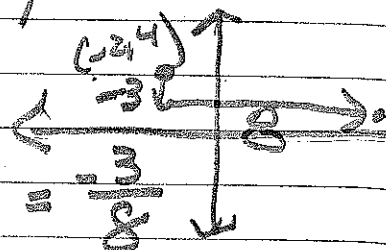
Given $(-2, 4)$, $(6, 1)$

① Graph (plot points)

then find $\frac{rise}{run}$ ratio $= \frac{-3}{8}$

② Formula $m = \dfrac{y_2 - y_1}{x_2 - x_1}$

$$m = \frac{1 - 4}{6 + 2} = \frac{-3}{8}$$

★③ Use a table $m = \dfrac{\Delta y}{\Delta x}$

$$+8 \left\langle \begin{array}{c|c} x & y \\ -2 & 4 \\ 6 & 1 \end{array} \right\rangle -3 \qquad \frac{\Delta y}{\Delta x} = \frac{-3}{8}$$

④ Using the calculator $\longrightarrow$

11/13/13 Finding Slope
→ Given 2 points

Using the Calculator to find Slope and y-intercept

STAT
1:Edit
Put 'x' values in L1 and put 'y' values in L2
STAT
→CALC
4:LineReg(ax+b)
ENTER (x2)

★ making a table in calc

x	y
-2	4
6	1

to fraction

$m = -0.375 \longrightarrow -\frac{3}{8}$

$b = 3.25$

then write equation

$y = mx + b$

$$y = -\frac{3}{8}x + 3.25$$