Do NOT move the desk!!
Turn your phone OFF!!
Put your phone up!!
Sit down!!
Be quiet!!
Prepare to work!!
Keep your hands to yourself!!

Oct 15-8:10 AM

Softbook - Pg 23

Slope of a Line

a) Slope $\Rightarrow m = \frac{\text{Rise}}{\text{Run}} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$

Points $\Rightarrow (x_1, y_1)$ (x_2, y_2)

$(3, 4)$ $(-2, -5)$

x_1 y_1 x_2 y_2

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-5 - 4}{-2 - 3} = \frac{-9}{-5} = \frac{9}{5}$

$= \frac{4 - (-5)}{3 - (-2)} = \frac{9}{5}$

3) $(-1,-4)\ (1,4)$

$x_2\ y_2\ \ x_1\ y_1$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-4 - 4}{-1 - 1} = \frac{-8}{-2} = \frac{4}{1}$$

4) $(1,2)\ (-3,2)$

$x_1\ y_1\ \ x_2\ y_2$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 2}{-3 - 1} = \frac{0}{-4} = 0$$

$(-3,-2)\ \ (-1,-4)$

$x_1\ y_1\ \ x_2\ y_2$

$$m = \frac{-4 - (-2)}{-1 - (-3)} = \frac{-2}{2} = \frac{-1}{1}$$

Oct 21-11:38 AM

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 2}{-3 - 1} = \frac{0}{-4} = 0$$

$y = mx + b$

$y = 0x + 3$

$y = 3$

$m = 0 \quad b = 3$

$m = 0$

Rep $\Rightarrow \frac{1}{0}$ = undefind

$x = 3$

m = und $\quad b$ = none