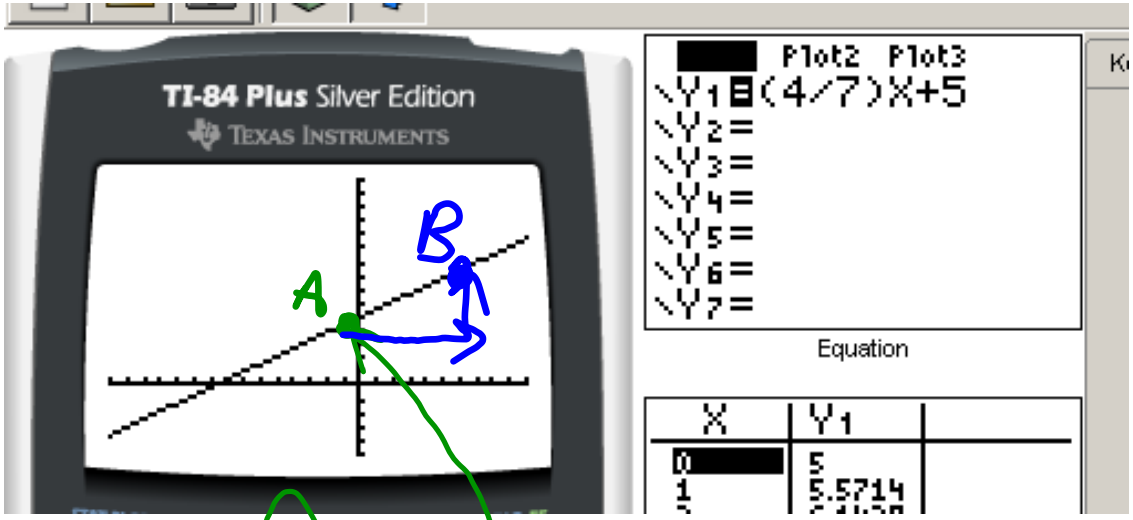
(2.3) Graphing an Equation

Ex. 1



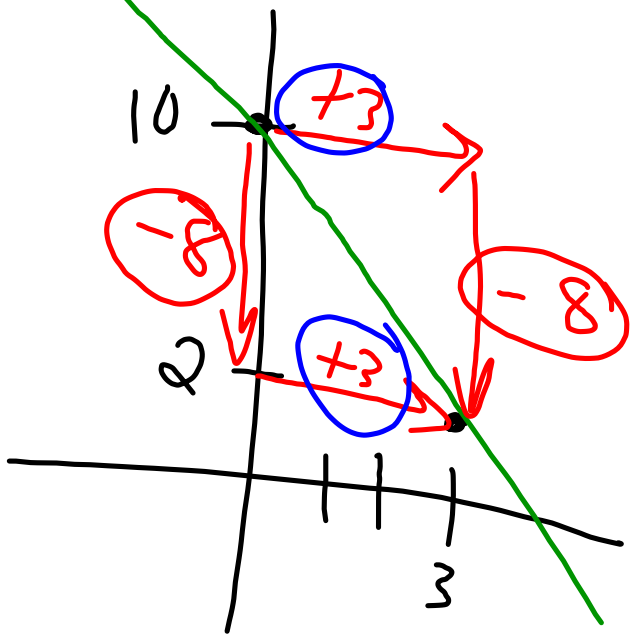
$y = \frac{4}{7}x + 5$

$A(0, 5)$

$B(7, 9)$

$\text{Rate } \Delta = \frac{4}{7} = \frac{\uparrow 4}{\rightarrow 7}$

Ex. 2



y int = 10

$\text{Rate } \Delta = \frac{\Delta y}{\Delta x}$

$\text{Rate } \Delta = \frac{-8}{3}$

$$y = -\frac{8}{3}x + 10$$

Ex3.

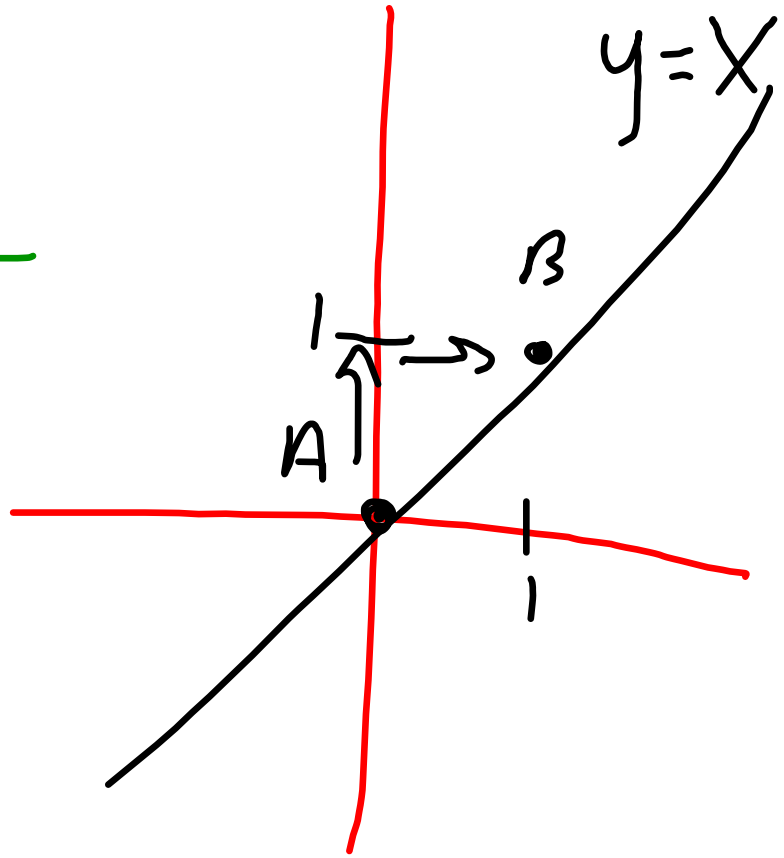
$y = 1x + 0$

Rate $= 1 = \frac{1}{1} = \frac{\uparrow 1}{\rightarrow 1}$

y int $= 0$

$A(0,0)$

$B(1,1)$



2.3 p. 111 "a to e!"

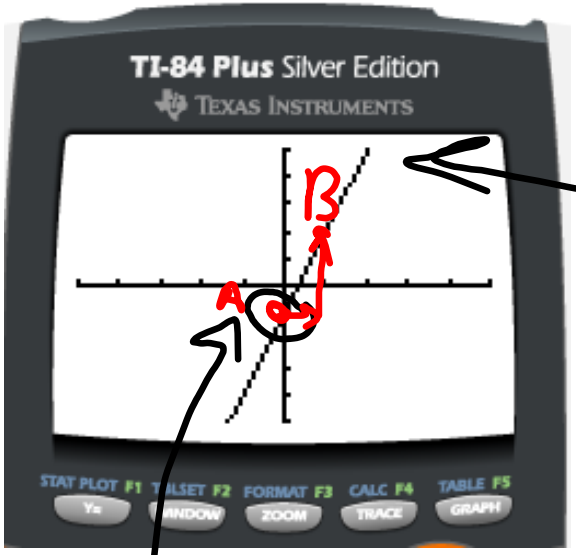
a) graph equation on GC

b) sketch in notebook

c) label key info

- y intercept
- rate △

a) demo



$y = 3x - 1$

y-intercept $= -1$

$A(0, -1)$

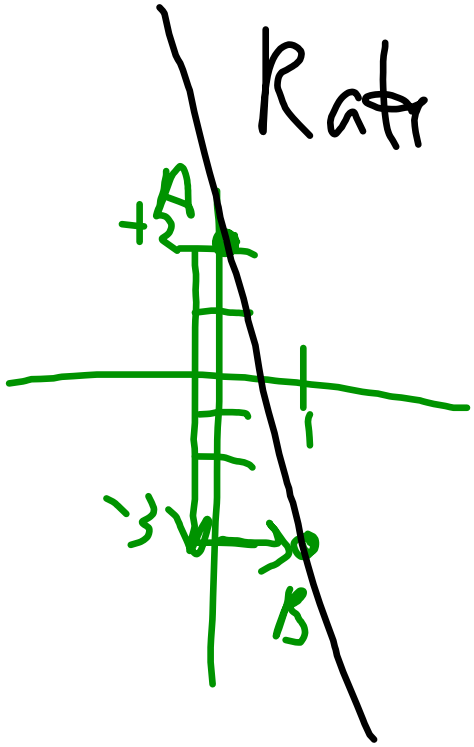
Rate $\Delta = \frac{\uparrow 3}{\rightarrow 1}$

$B(1, 2)$

d) $y = -5x + 2$

yint $= 2$ $A(0, 2)$

Rate $0 = -5 = \frac{-5}{1} = \frac{\downarrow 5}{\rightarrow 1}$



$B(1, -3)$