

Warm-up

1) $-6 + 4$

2) $-9 - 3$

3) $-4 - 4$

4) $1 - 5$

5) $-7 + (-2)$

6) $-8 + 11$

7) $-6 + 6$

$$|2x - 3| = 9$$

$$2x - 3 = 9 \quad \text{or} \quad 2x - 3 = -9$$

2.1b $f(x)$: Graphing

$f(x)$ is a fancy way to say it is a function.

$$f(x) = x + 2 \text{ is same as } y = x + 2$$

* replace $f(x)$ with y

Graph $f(x) = x + 2$ } $y = x + 2$

x	y
-2	0
-1	1
0	2
1	3

1st - Make a table

2nd - pick points for x

3rd - Graph

$$y = -2 + 2 = 0$$

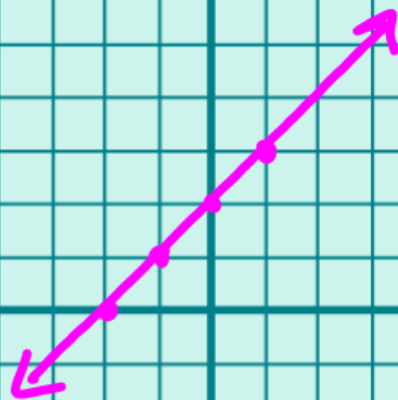
$$= -1 + 2 = 1$$

$$0 + 2 = 2$$

$$1 + 2 = 3$$

$$y = x + 2$$

x	y
-2	0
-1	1
0	2
1	3



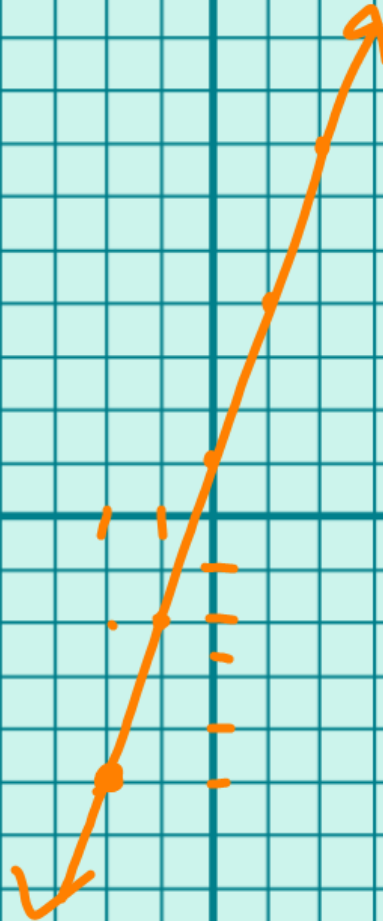
upstairs,
positive
slope

$$\text{Slope} = \frac{\text{rise}}{\text{run}}$$

$$= \frac{1 \text{ up}}{1 \text{ right}}$$

$$y = 3x + 1$$

x	y
-2	-5
-1	-2
0	1
1	4
2	7



$$\text{Slope} = \frac{\text{rise}}{\text{run}}$$

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

Y

$$f(x) = x^2 - 3. \text{ Find } f(2) \rightarrow$$

$$f(-1) \rightarrow$$

↓

$$y = x^2 - 3 \quad \text{for } x=2, x=-1$$

$$= (2)^2 - 3$$

$$= 1$$

$$= (-1)^2 - 3$$

$$= 1 - 3$$

$$= -2$$

$$y = -3x + 2$$

x	y
-2	4
-1	1
0	-2
1	-5
2	-8

Y