T-A1 Algebra 1 Week 26

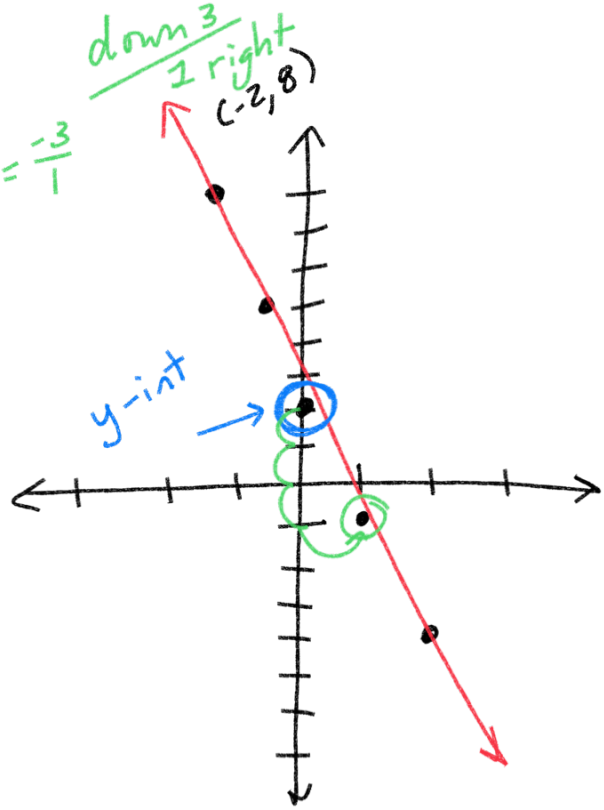
output

$y = -3x + 2$ (input)

-3: slope $= \frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x} = \frac{-3}{1}$ (down 3, 1 right)

$+2$: y-intercept

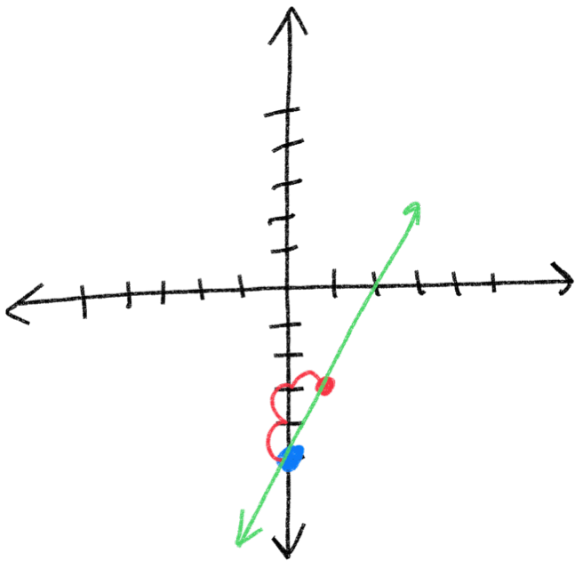
x	$-3x + 2$	y	
-2	$-3(-2) + 2$, $6 + 2$	8	$(-2, 8)$
-1	$-3(-1) + 2$, $3 + 2$	5	$(-1, 5)$
0	$-3(0) + 2$, $0 + 2$	2	$(0, 2)$
1	$-3(1) + 2$, $-3 + 2$	-1	$(1, -1)$
2	$-3(2) + 2$, $-6 + 2$	-4	$(2, -4)$

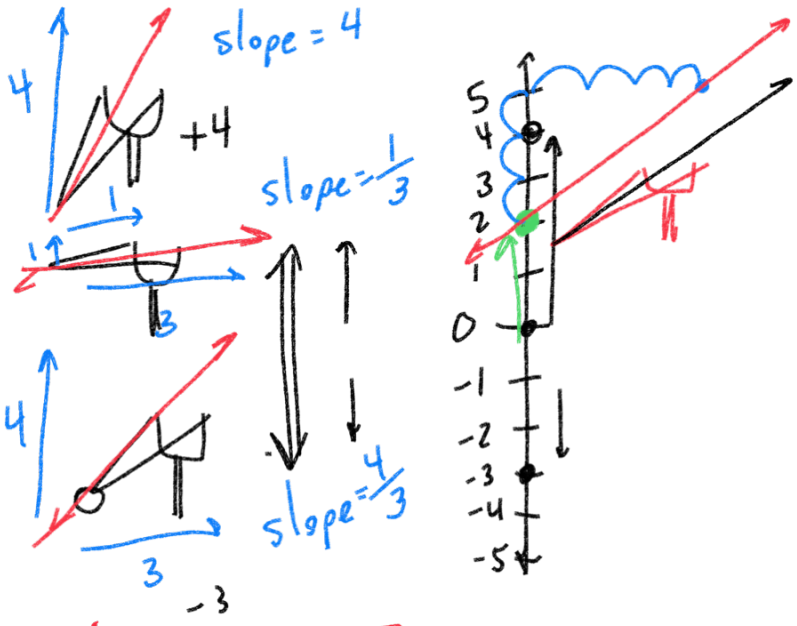


$y = 2x - 5$

-5: y-intercept

2: slope $2 = \frac{\text{up } 2}{1 \text{ right}}$





rise / run → $\frac{0}{\text{run}}$ undefined

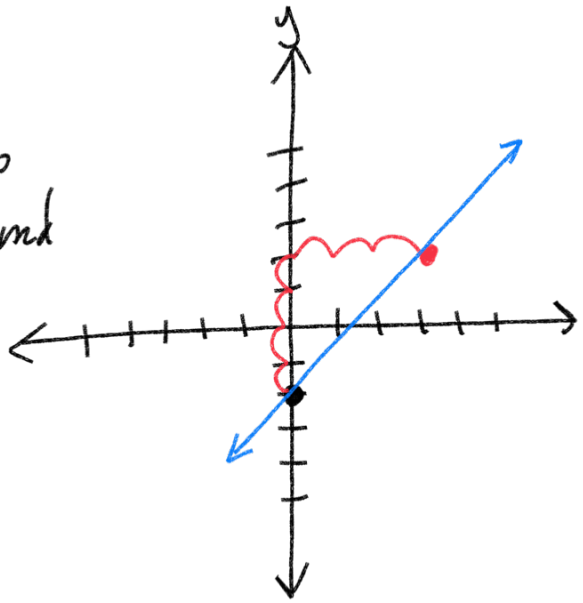
$y = \frac{3}{4}x + 2$

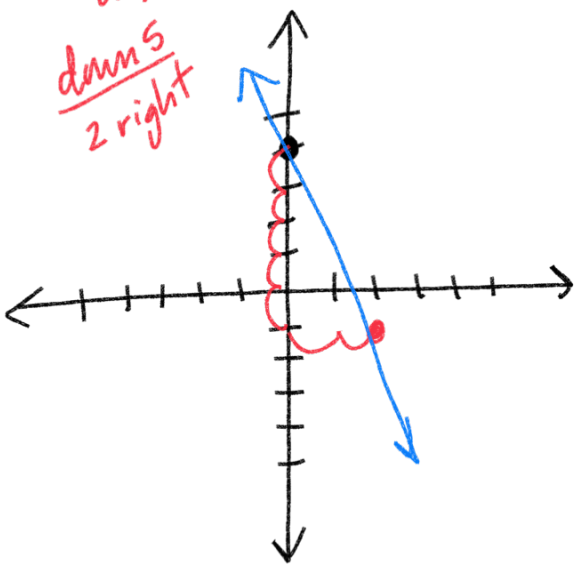
(1) $y = \frac{4}{3}x - 2$ — slope: 4 up / 3 right; y-int: −2

(2) $y = \frac{-5}{2}x + 4$ — slope: down 5 / 2 right; y-int: +4

1.) Plot y-int

2.) Use slope to find the second point





input x	output f(x)
1	3
2	4
3	5

$x = 2$, $f(2) = 4$

$x + 2 = f(x)$

increasing: + *

decreasing: − ÷

$f(x)$ → "f of x"

"function with respect to x"

$f(x) \longleftrightarrow y$

x	f(x)
→ −3	−4
0	−1
→ 5	4

$x - 1 = f(x)$

x	f(x)
0	0
2	6
5	15

$x * 3 = f(x)$

$3x = f(x)$

x	f(x)
−4	7
−1	10
3	14

$x + 11 = f(x)$

x	f(x)
−16	+4
−4	+1
+12	−3

$x \div -4 = f(x)$

$f(x) = -\frac{x}{4}$

HW

ch 5.4 evens

Supplement + WS

HW 26

Quiz 26 3 4/20

* HW/Q 24 due tonight

HW/Q25 due 4/13