

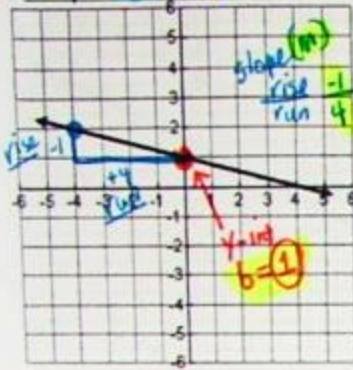
# Unit 3 Notes: "Writing Rules for Linear Equations"

## Practice Writing Rules (Equations)

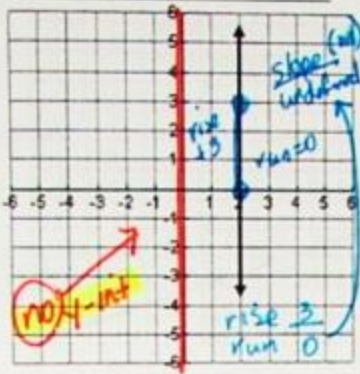
Write a rule (equation) for each.

Find  $m$  and  $b$ . Use  $y = mx + b$ .

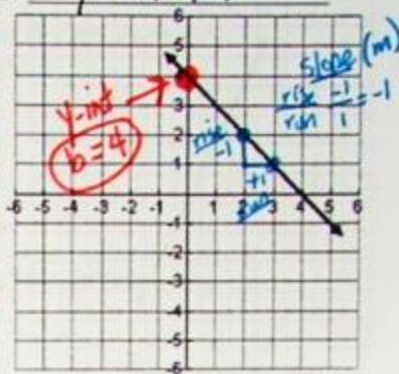
1.  $y = -\frac{1}{4}x + 1$



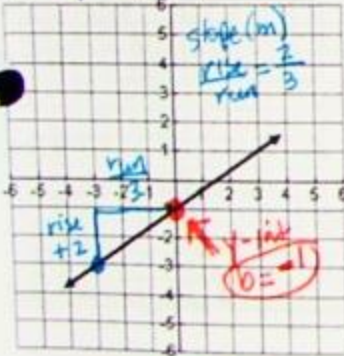
2.  $x = 2$



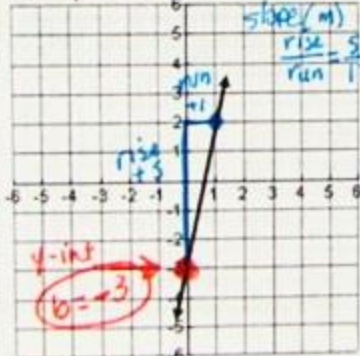
3.  $y = -1x + 4$



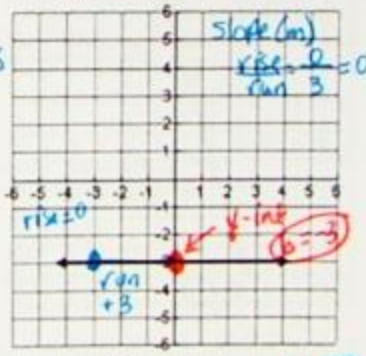
4.  $y = \frac{2}{3}x - 1$



5.  $y = 5x - 3$



6.  $y = -3$



7.  $y = -2x + 7$

x	y
0	7
1	5
2	3
3	1
4	-1
5	-3

$m = \frac{-2}{1} = -2$

8.  $y = -6x - 10$

x	y
-3	8
-2	2
-1	-4
0	-10

$m = \frac{-6}{1} = -6$

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

x	y
4	-2
6	-5
8	-8
10	-11

$m = \frac{-3}{2}$

10.  $y = \frac{3}{2}x - 6$

x	y
0	-6
6	-3
12	0
18	3
24	6

$m = \frac{3}{2}$

11.  $y = -2x + 6$

x	y
1	4
2	2
3	0
4	-2

$m = -\frac{2}{1} = -2$

12.  $y = \frac{5}{2}x - 14$

x	y
0	-14
2	-9
4	-4
6	1
8	6

$m = \frac{5}{2}$