

2.6.  
 p 109  
 b- 40E

$$b. \quad y = 10 + x - 2$$

$$y = 1x + 8$$

	x	x+8	y
<	-3	-3+8	5 >
<	-2	-2+8	6 >
<	-1	-1+8	7 >
<	0	0+8	8 >
<	1	1+8	9 >
<	2	2+8	10 >
<	3	3+8	11 >

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

$$18. \quad y = -3x + 1$$

$x$	$-3x + 1$	$y$
$-3$	$-3(-3) + 1$	$10$
$-2$	$-3(-2) + 1$	$7$
$-1$	$-3(-1) + 1$	$4$
$0$	$-3(0) + 1$	$1$
$1$	$-3(1) + 1$	$-2$
$2$	$-3(2) + 1$	$-5$
$3$	$-3(3) + 1$	$-8$

Red arrows on the left point to the x-values:  $-3, -2, -1, 0, 1, 2, 3$ .  
 Green arrows on the right point to the y-values:  $10, 7, 4, 1, -2, -5, -8$ .  
 The y-value  $1$  is circled in blue.

$$\frac{\text{Difference of } y\text{'s}}{\text{Difference of } x\text{'s}} = \frac{-3}{+1} = -3$$

$$y = -3x + 1$$

34.

	x	y
1 <	0	650
1 <	1	695
1 <	2	740
1 <	3	785

$\begin{matrix} > +45 \\ > +45 \\ > +45 \end{matrix}$

$$\frac{\text{Difference of } y\text{'s}}{\text{Difference of } x\text{'s}} = \frac{45}{1}$$

$$y = 45x + 650$$

36.

$$y = 18x + 0$$

$$y = 18x$$

$$26. \quad y = 4 - x$$

$x$	$4 - x$	$y$
-2	$4 + 2$	6
-1	$4 + 1$	5
0	$4 - 0$	4
1	$4 - 1$	3
2	$4 - 2$	2
3	$4 - 3$	1

$$y = 4 - x$$

x	y
-2	6
-1	5
0	4
1	3
2	2
3	1

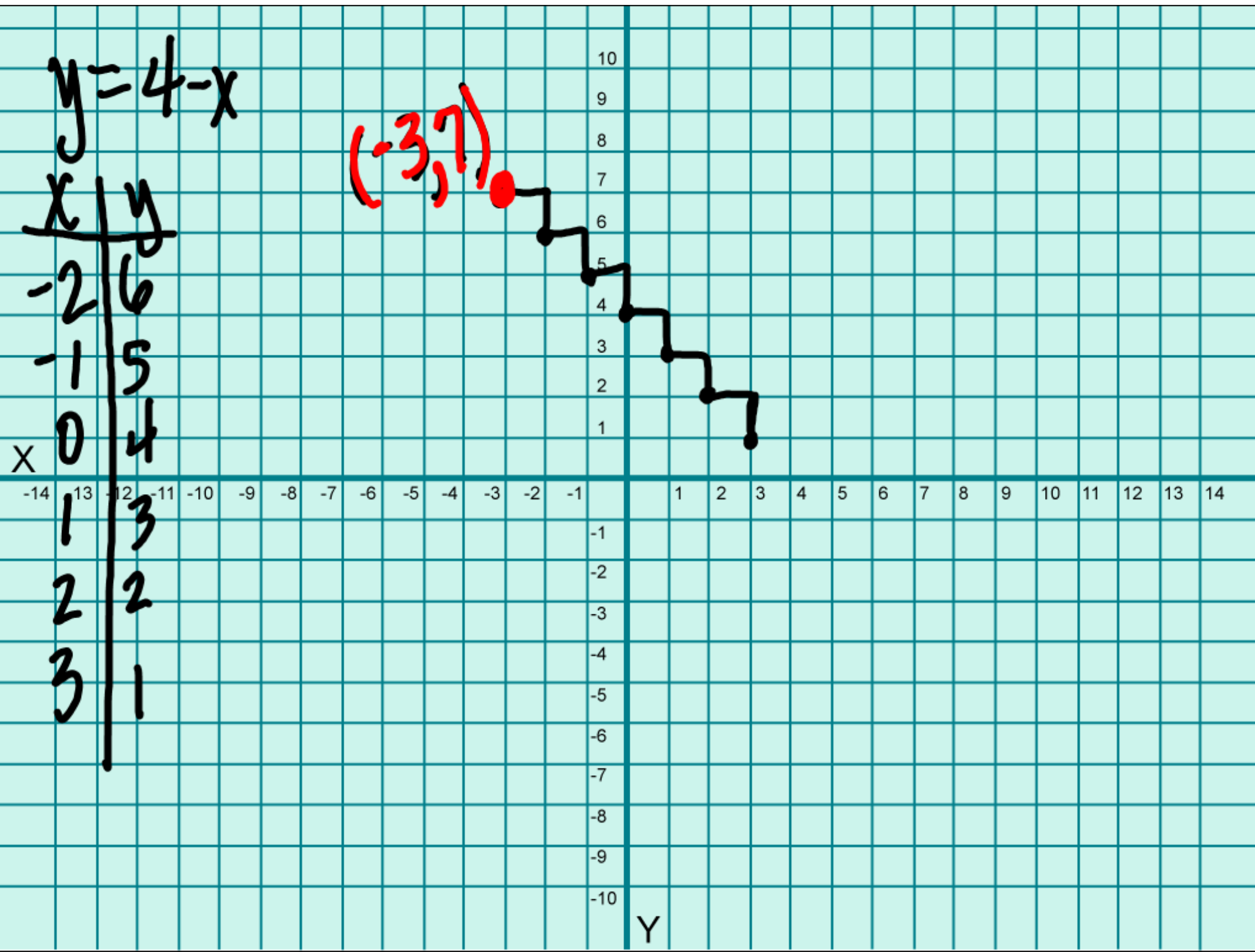
$(-3, 7)$

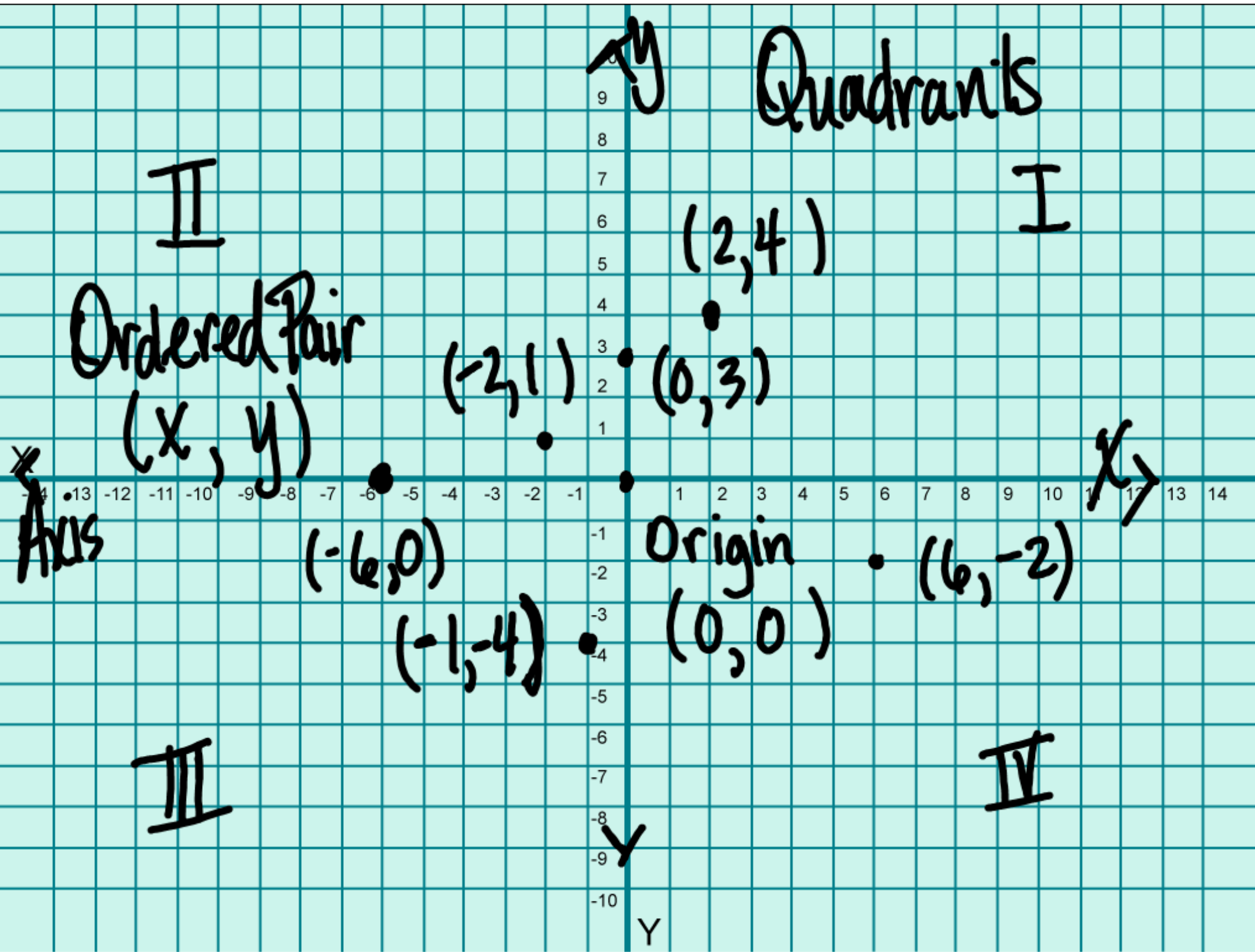
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
-1  
-2  
-3  
-4  
-5  
-6  
-7  
-8  
-9  
-10

Y

-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14

X





# Quadrants

II

I

Ordered Pair  
 $(x, y)$

x Axis

y

Origin  
 $(0, 0)$

III

IV

y

32.

$$y = 2x - 8$$

X

-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14

Y

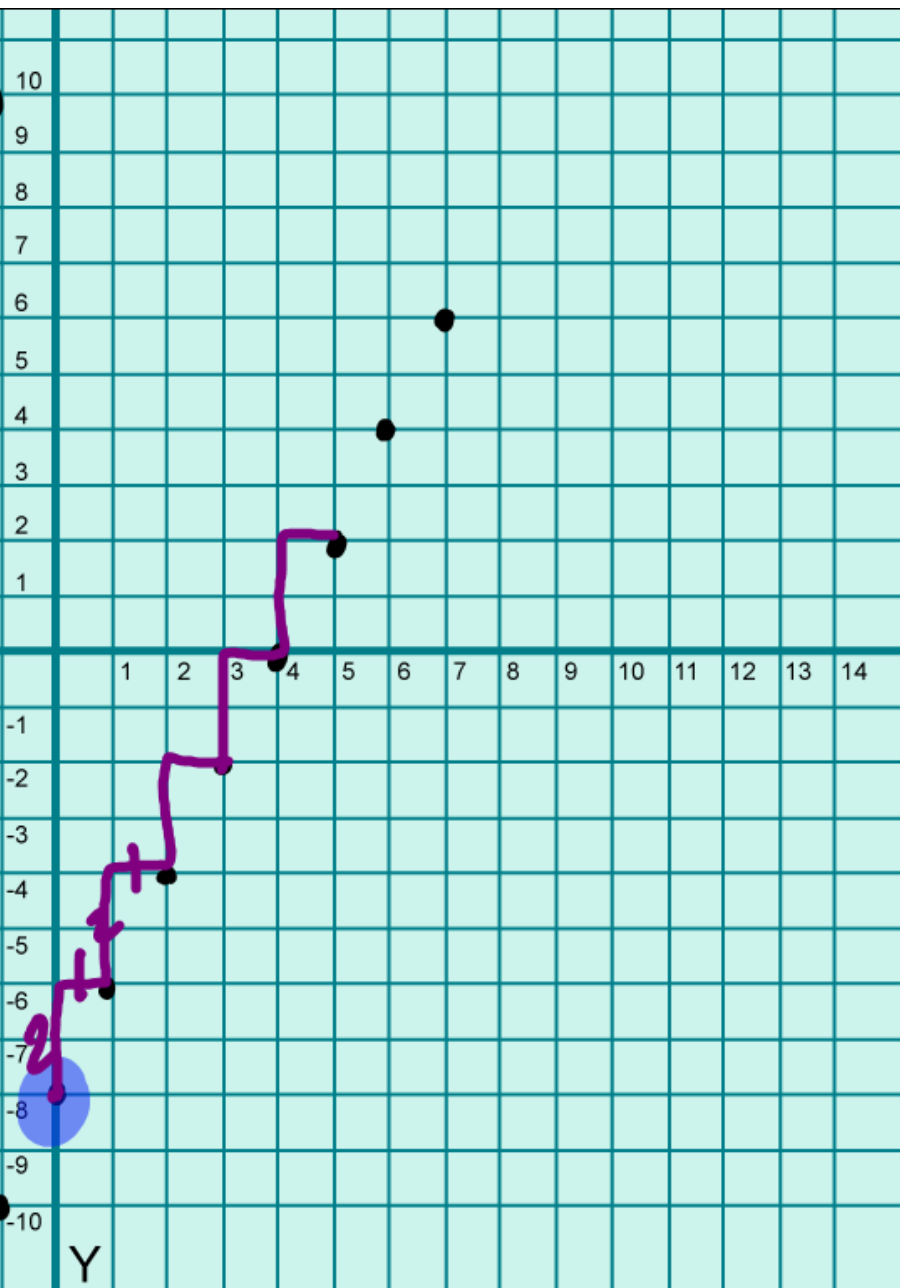
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
-1  
-2  
-3  
-4  
-5  
-6  
-7  
-8  
-9  
-10

Y

2

2

2



$$20. \quad y = 2x - -5$$

$$y = 2x + 5$$

$x$	$2x + 5$	$y$
$< -3$	$2(-3) + 5$	$-1 > 2$
$< -2$	$2(-2) + 5$	$1 > 2$
$< -1$	$2(-1) + 5$	$3 > 2$
$< 0$	$2(0) + 5$	$5 > 2$
$< 1$	$2(1) + 5$	$7 > 2$
$< 2$	$2(2) + 5$	$9 > 2$
$< 3$	$2(3) + 5$	$11 > 2$

$$\frac{2}{1}$$

$$= 2$$