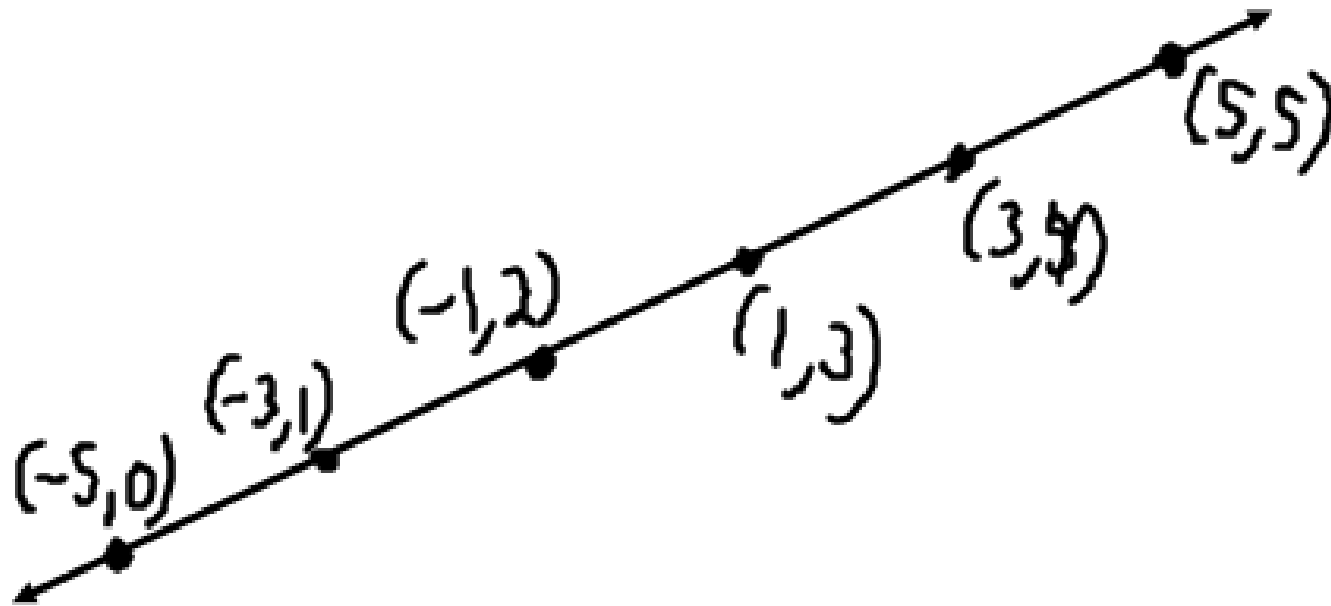


Section 13-2: Creating Graphs from Tables

See Worksheet 13-2

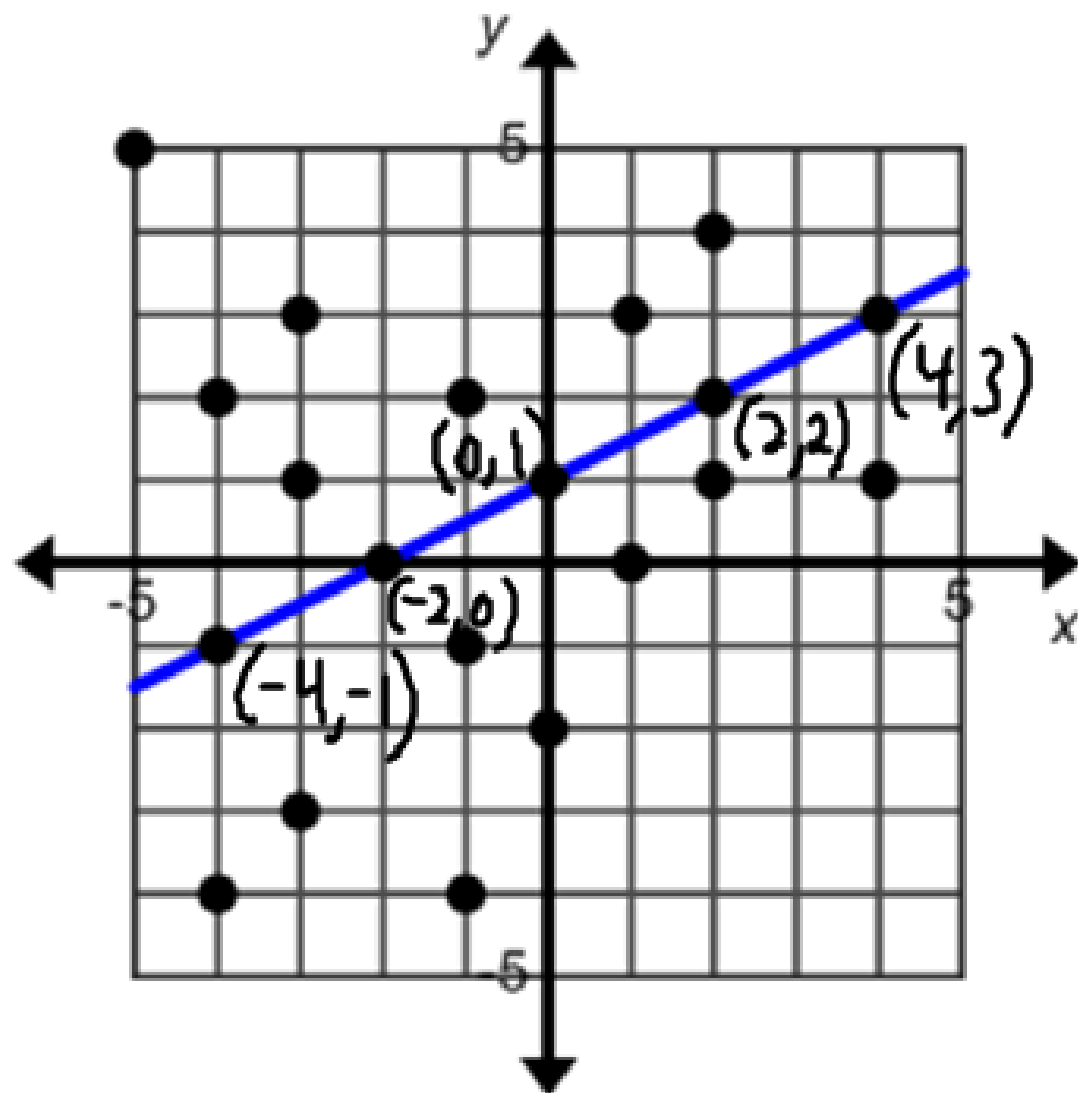


Solutions of a graph:

Any point (x, y) on the line.

Name all of the whole number solutions shown on the coordinate graph below.

1.



$$(-4, -1)$$

$$(2, 2)$$

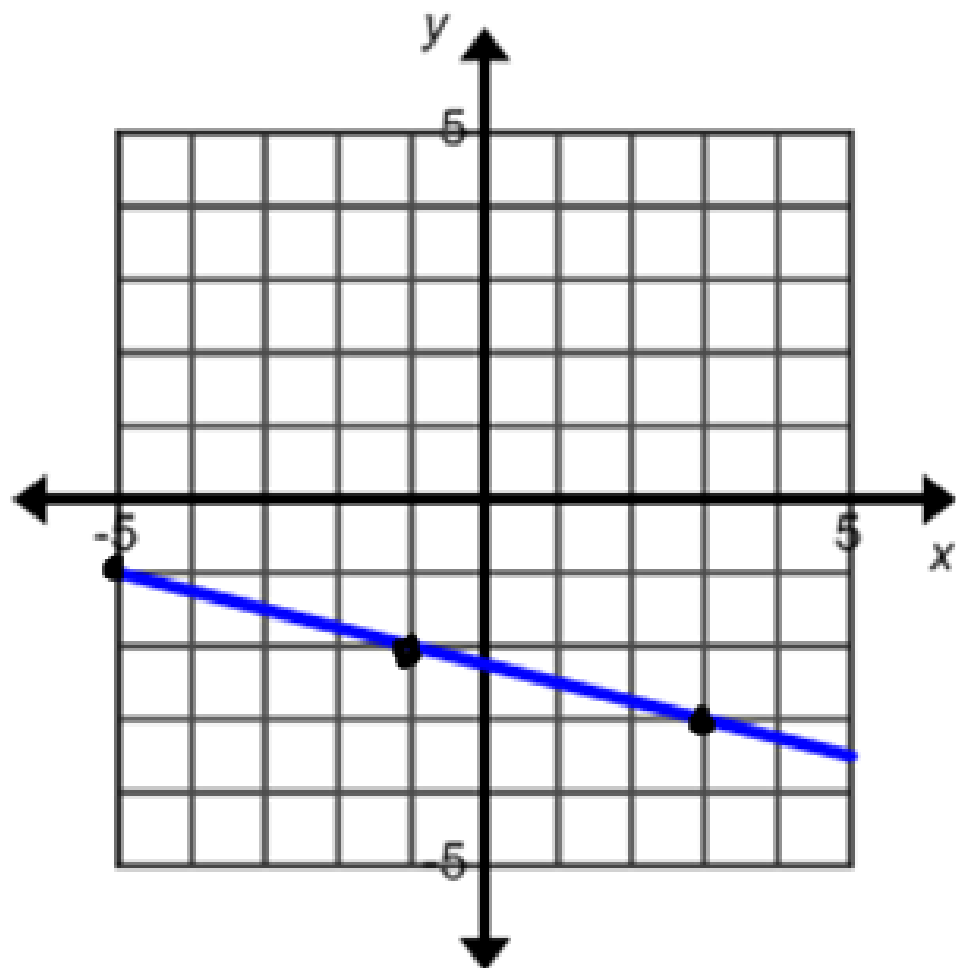
$$(0, 1)$$

$$(4, 3)$$

$$(-2, 0)$$

Name **THREE** solutions for the given line.

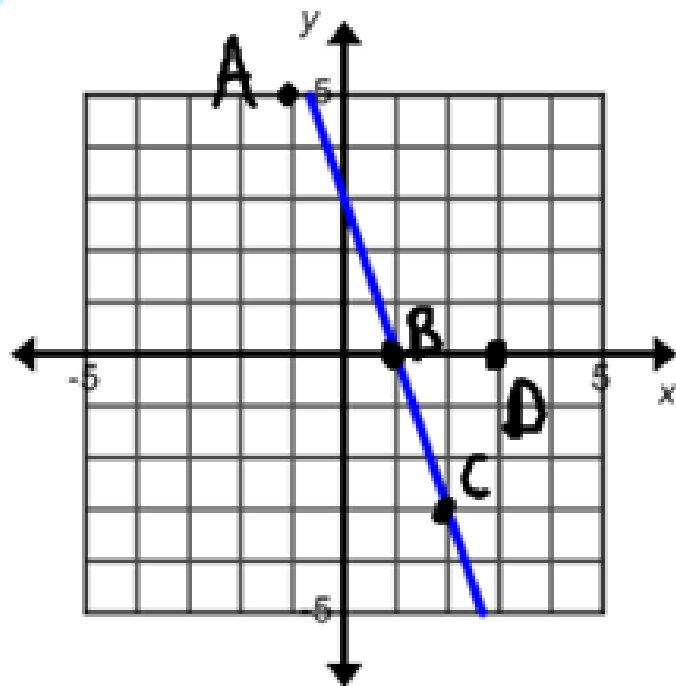
3.



$(-1, -2)$
 $(-5, -1)$
 $(3, -3)$

Determine if each point is a solution for the given line, write YES (if it is a solution) or NO (if it is not).

5.



A. $(-1, 5)$ No

B. $(1, 0)$ Yes

C. $(2, -3)$ Yes

D. $(3, 0)$ No

Determine if each point is a solution to the equation, write YES (if it is a solution) or NO (if it is not).

7. $y = x + 5$

		x	y		
		↓	↓		
No	A.	(2, 5)		A.	$5 = 2 + 5$ No
No	B.	(5, 2)		B.	$2 = 5 + 5$ No
Yes	C.	(3, 8)		C.	$8 = 3 + 5$ Yes
Yes	D.	(-1, 4)		D.	$4 = -1 + 5$ Yes

Solutions of an equation:

Plug (x, y) into the x and y in the equation.

Create the following tables and graph each equation:

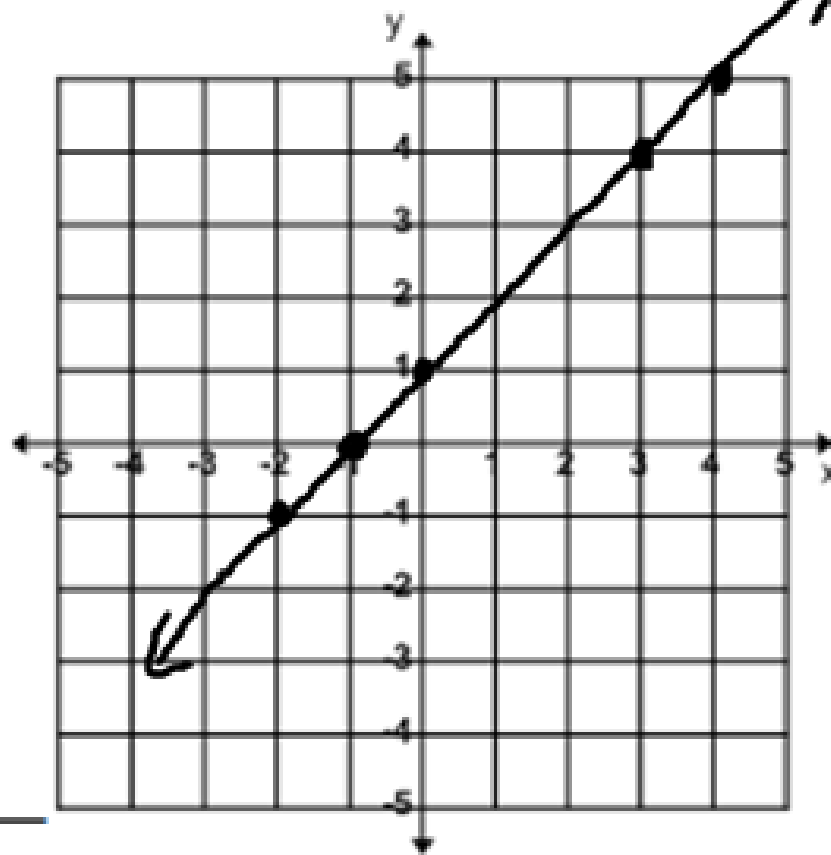
5. $y = x + 1$

X	Y
-2	-1
0	1
-1	0
3	4
4	5

Slope = 1

Y-intercept = (0,1)

The Y-Intercept: where the line crosses the y-axis.
When $x=0$



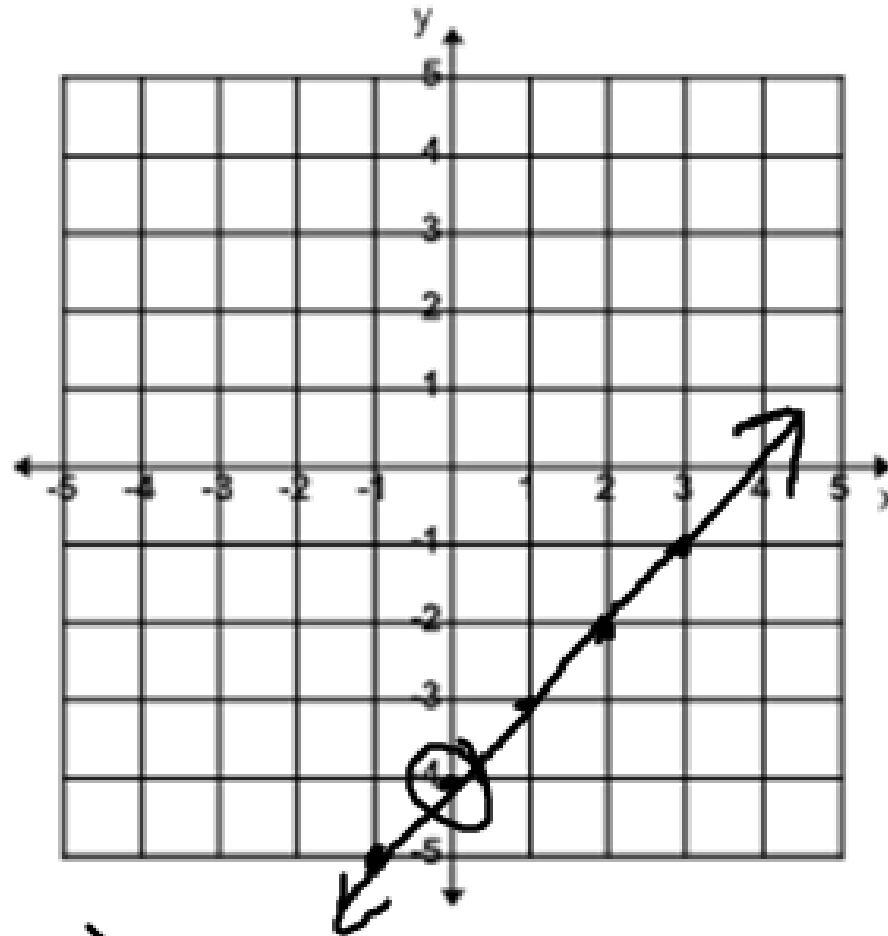
$$\begin{aligned}y &= -2 + 1 \\y &= -1 \\y &= 0 + 1 = 1 \\y &= -1 + 1 = 0 \\y &= 3 + 1 = 4 \\y &= 4 + 1 = 5\end{aligned}$$

6. $y = x - 4$

X	Y
-1	-5
0	-4
1	-3
2	-2
3	-1

Slope = 1

Y-intercept = (0, -4)



8. $y = -3x + 3$

$$y = -3(-2) + 3 = 6 + 3 = 9$$

X	-2	-1	0	1	2
Y	9	6	3	0	-3

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

Y-intercept = $(0, 3)$

