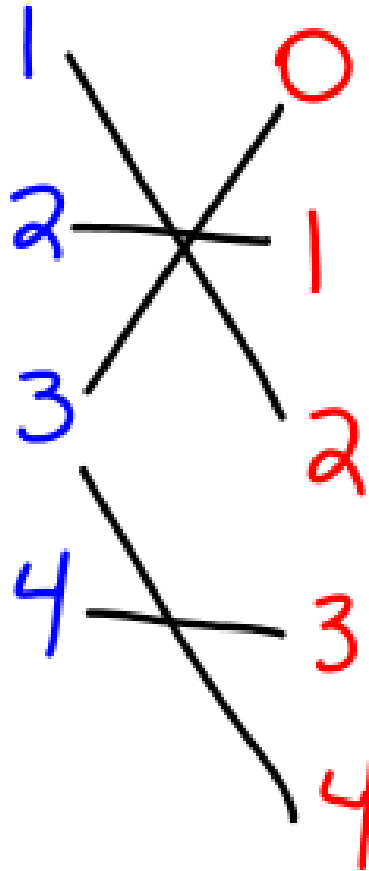


Chapter 9-1 to 9-3 Review Part 1

Determine if the relation is a function. Explain.

1. $(1,2)$, $(2,1)$, $(3,0)$, $(3,4)$, $(4,3)$

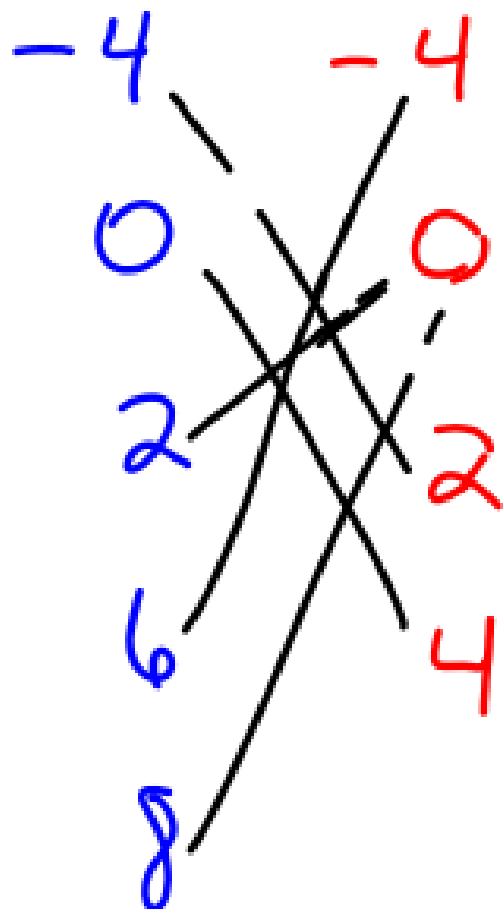


Not a function.

Input 3 has two outputs.

Determine if the relation is a function. Explain.

2. $(0,4)$, $(2,0)$, $(6,-4)$, $(-4,2)$, $(8,0)$

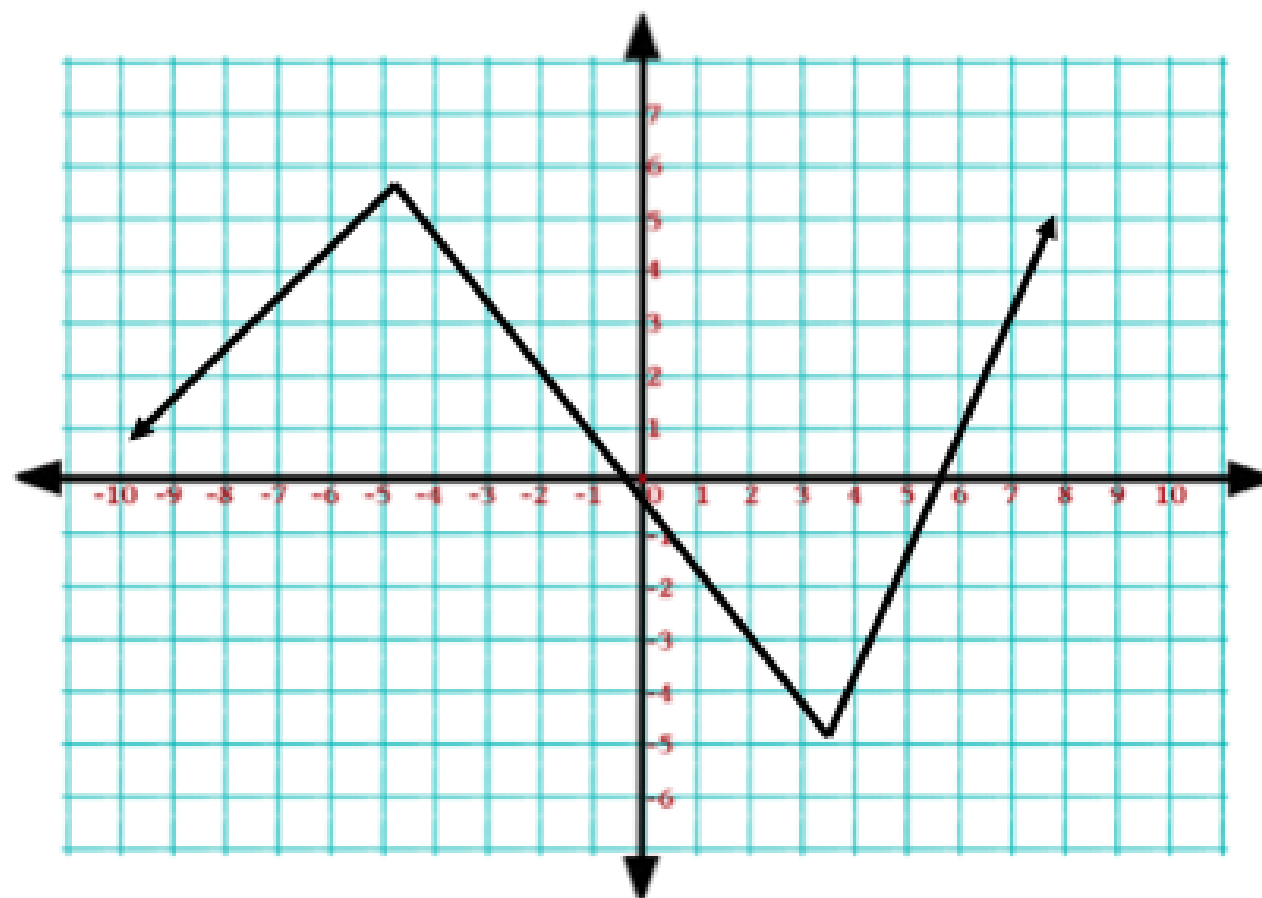


Yes it's a function.

Every input (x) has only one output.

Determine if the relation is a function. Explain.

3.



Yes, it's a function. Passes the Vertical Line Test.

If $f(x) = -3x + 1$, find each function value

4. $f(-1)$

$$f(x) = -3(-1) + 1$$

$$= 3 + 1$$

$$= 4$$

$$(-1, 4)$$

5. $f(5)$

$$f(x) = -3(5) + 1$$

$$= -15 + 1$$

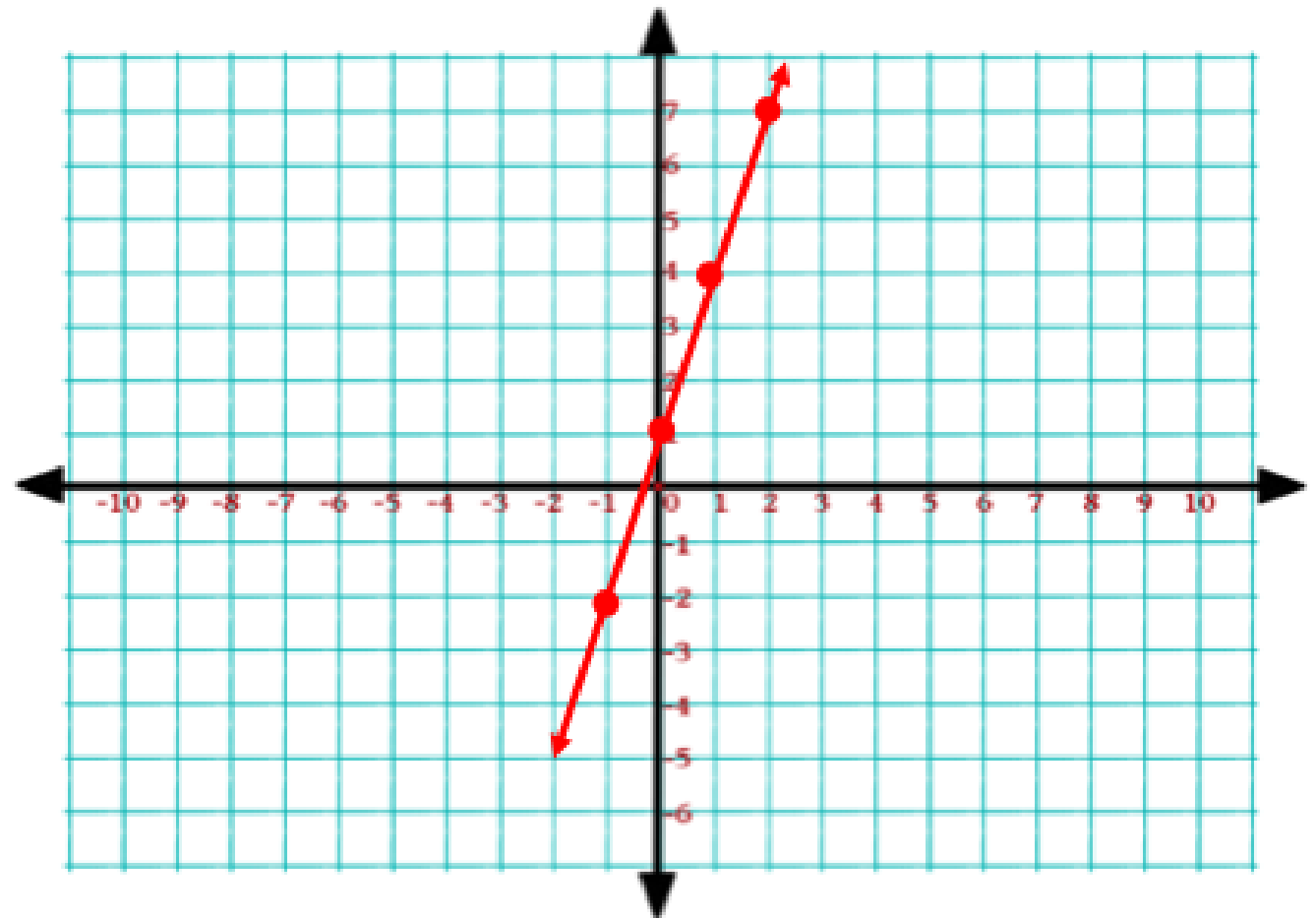
$$= -14$$

$$(5, -14)$$

Find 4 solutions to each function/equation; then graph.

6. $y = 3x + 1$

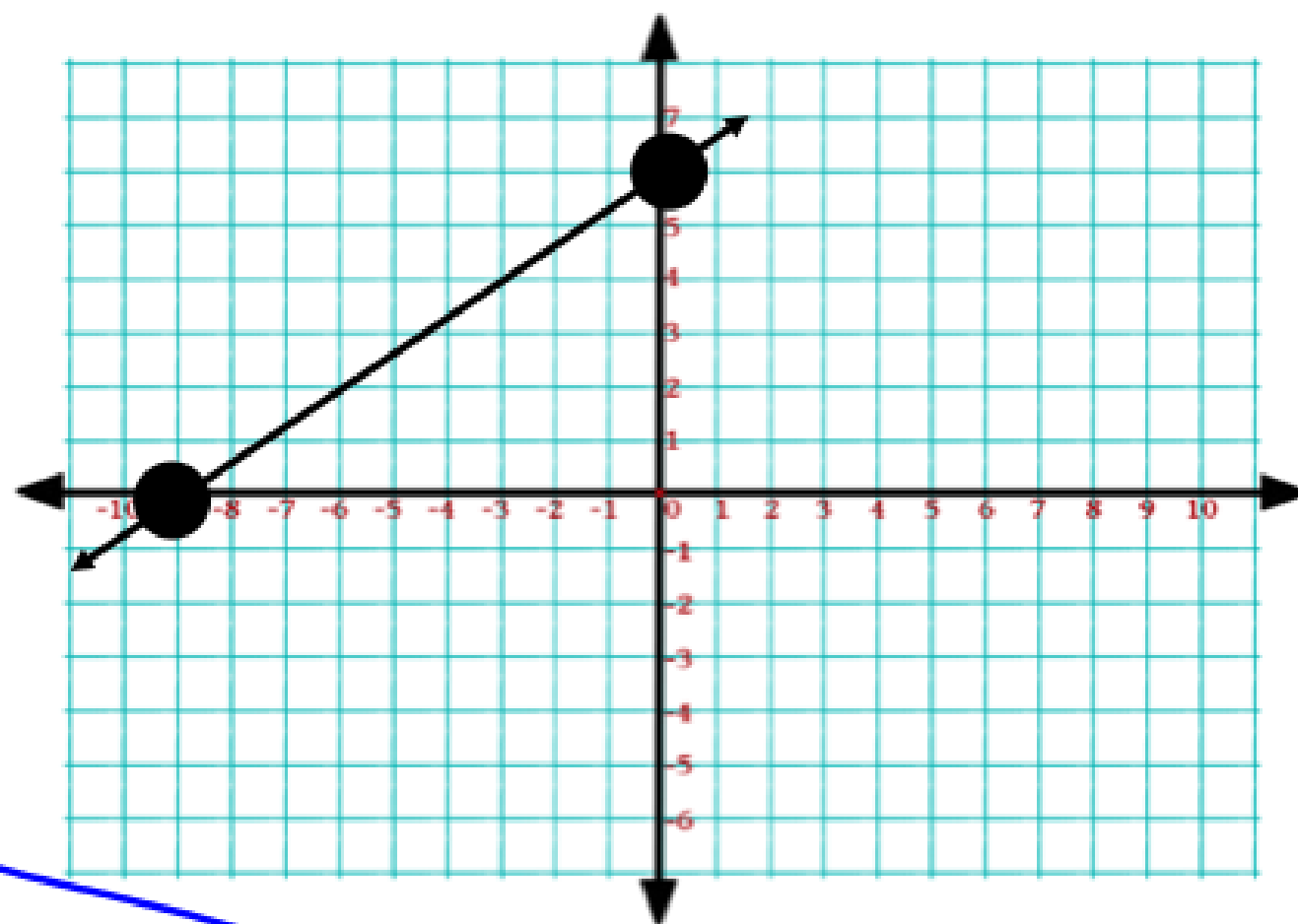
x	y
-1	-2
0	1
1	4
2	7



Using the intercepts, graph the function/equation.

7. $2x - 3y = -18$

x	y
-9	0
0	6



$$2x - 3(0) = -18$$

$$2x = -18$$

$$x = -9$$

$$2(0) - 3y = -18$$

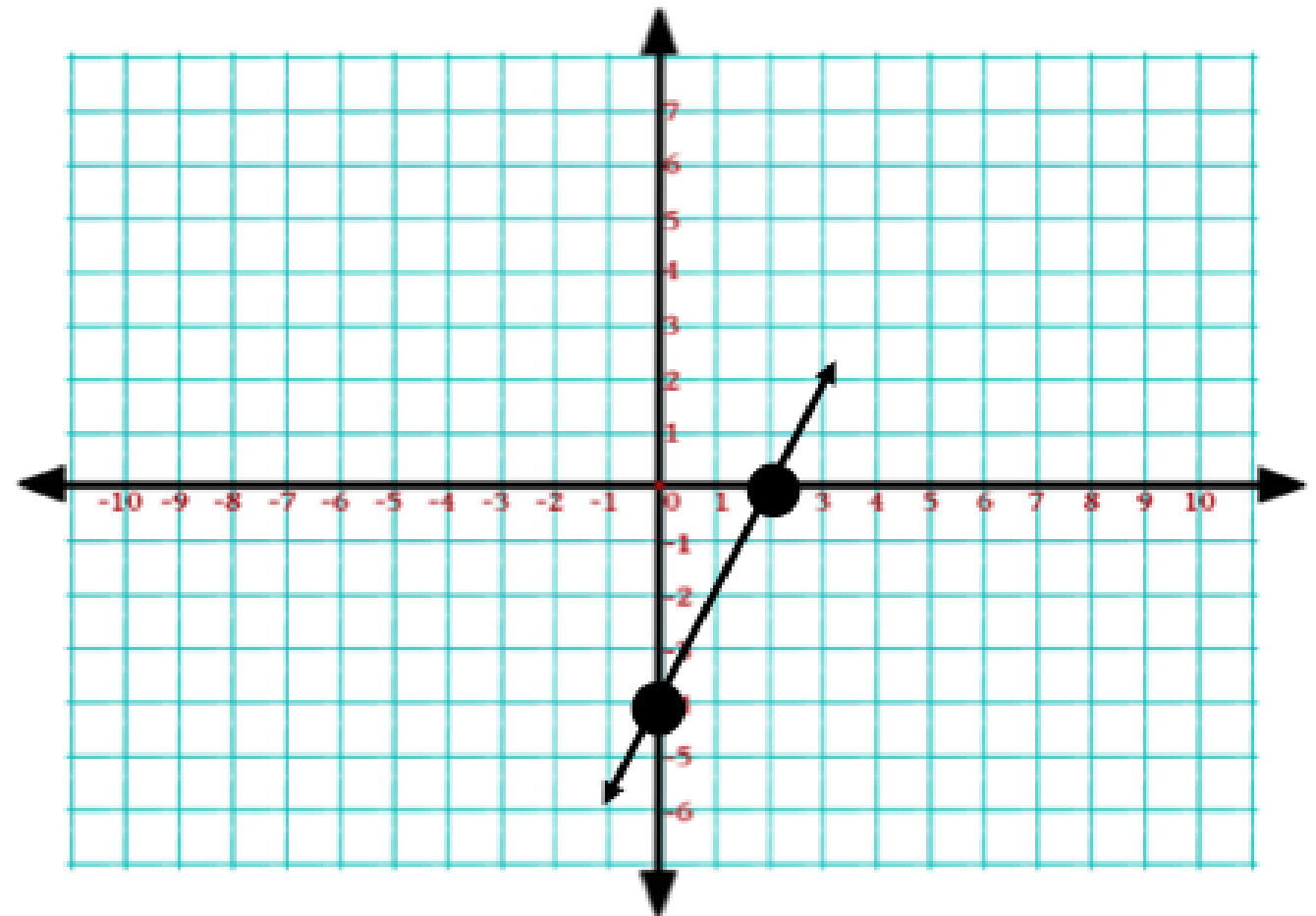
$$-3y = -18$$

$$y = 6$$

Using the intercepts, graph the function/equation.

8. $y = 2x - 4$

x	y
2	0
0	-4



$$\begin{aligned} 0 &= 2x - 4 \\ 4 &= 2x \\ 2 &= x \end{aligned}$$
$$\begin{aligned} y &= 2(0) - 4 \\ y &= -4 \end{aligned}$$