

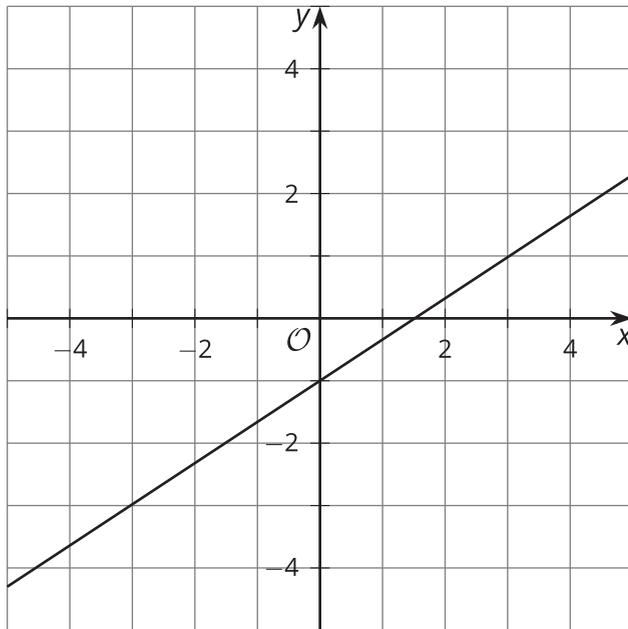
# Unit 4 Lesson 5: Function Representations

## 1 Notice and Wonder: Representing Functions (Warm up)

### Student Task Statement

What do you notice? What do you wonder?

$$f(x) = \frac{2}{3}x - 1$$



$x$	$y$
-1	$-\frac{5}{3}$
0	-1
1	$-\frac{1}{3}$
2	$\frac{1}{3}$
3	1

## 2 A Seat at the Tables

### Student Task Statement

Use the equations to complete the tables.

1.  $y = 3x - 2$

$x$	$y$
1	
3	
-2	

2.  $y = 5 - 2x$

$x$	$y$
0	
3	
5	

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

$x$	$y$
-4	
3	
6	

4.

$x$	$y = 2x - 10$
3	
7	
-8	

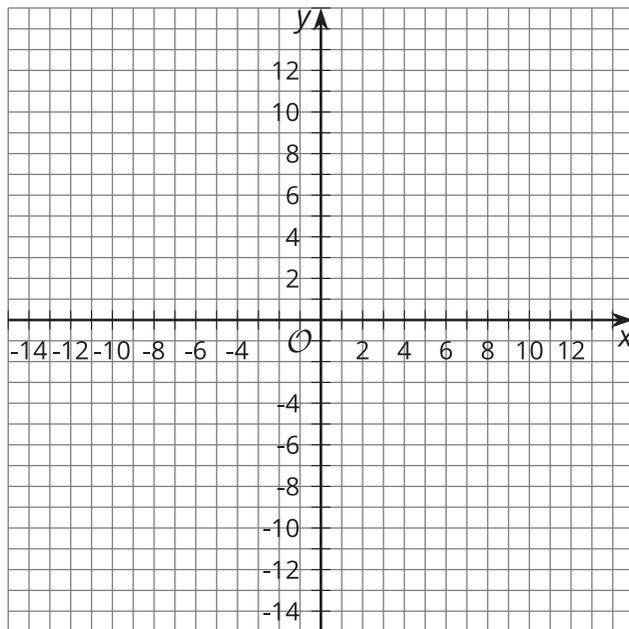
### 3 Function Finder

#### Student Task Statement

1. Use the values in the table to graph a possible function that would have the values in the table.

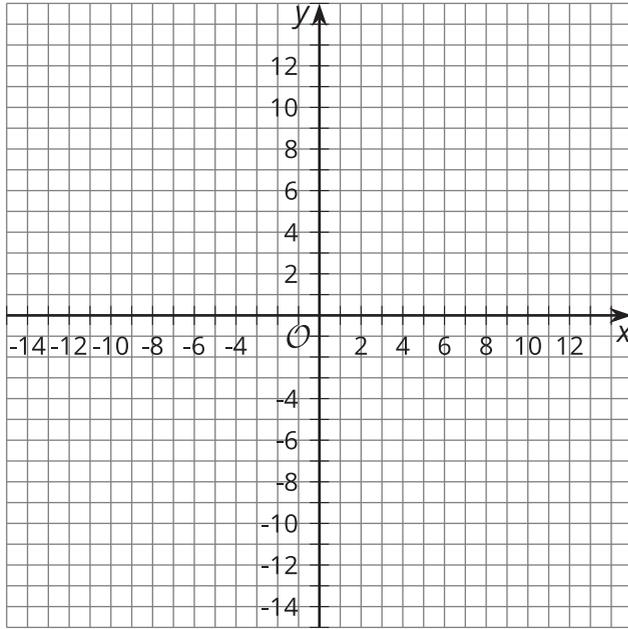
a.

$x$	$y$
1	3
2	5
3	7
5	11



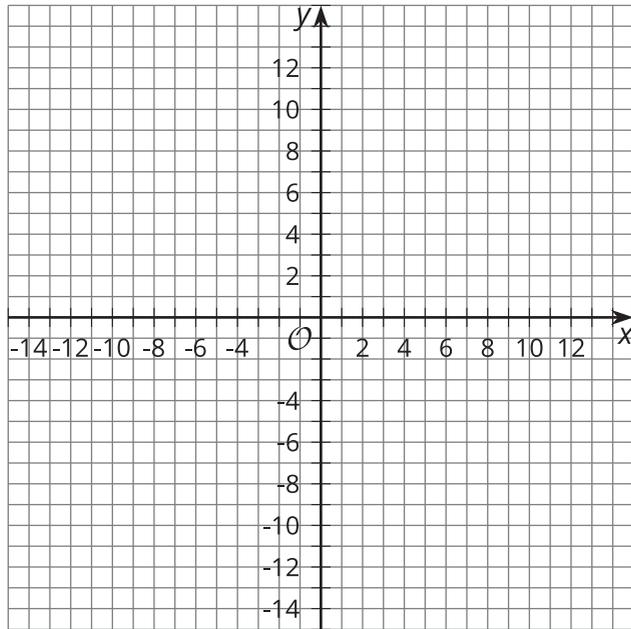
b.

$x$	$y$
-2	0
0	1
2	2
4	3



c.

$x$	$y$
-2	14
-1	12
1	8
2	6



2. For each of the tables and graphs, write a linear equation (like  $y = ax + b$ ) so that the table can be created from the equation.
3. Invent your own linear equation. Then, create a table or graph, including at least 4 points, to trade with your partner. After getting your partner's table or graph, guess the equation they invented.