



PRACTICE



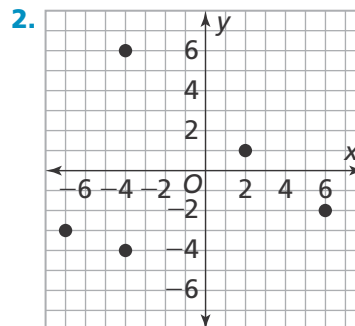
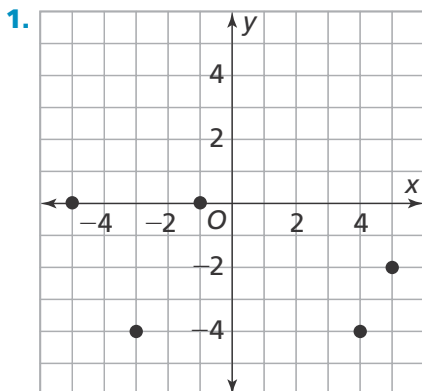
TUTORIAL

Name: \_\_\_\_\_

## 3-2 Additional Practice

Scan for  
Multimedia

In 1 and 2, explain whether the graph represents a function.



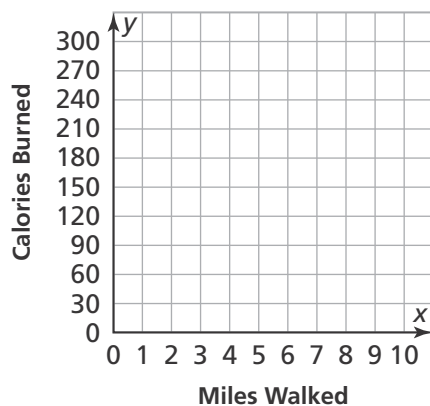
3. Marcus records the total number of Calories burned after each mile he walks.

Miles Walked ( $x$ )	1	2	3
Calories Burned ( $y$ )	97	194	291

- a. Graph the ordered pairs from the table.

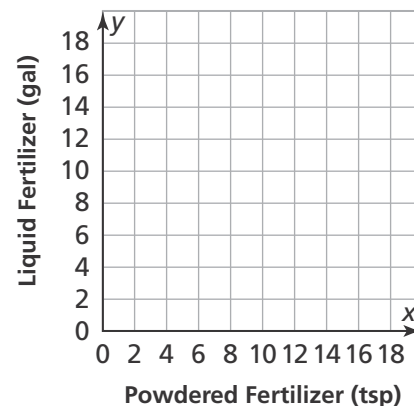
- b. Is the relation a function? Explain.

### Exercise

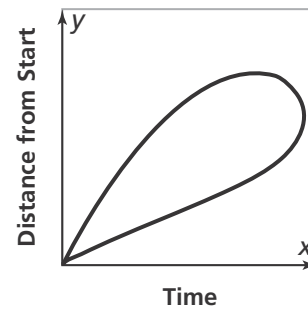
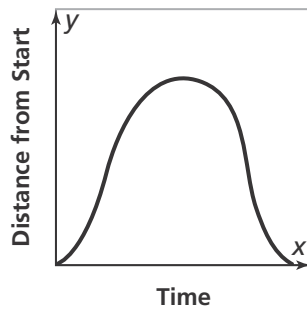
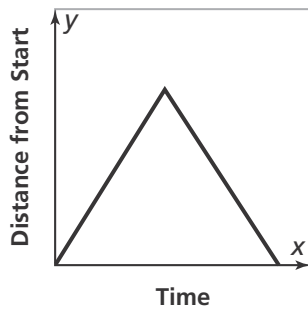


4. The relationship between the amount of powdered fertilizer,  $x$ , needed to make  $y$  gallons of liquid fertilizer is shown in the table. Is the relation a function? Use the graph to support your answer.

$x$	0	6	12	18
$y$	0	4	8	12



5. Robert swims a lap in the pool. His coach graphs his distance from the starting block. © MP.3



- a. Determine whether each graph is a function. Justify your answer. **b. Construct Arguments** Which graph must be incorrect? Explain.

6. **Higher Order Thinking** Which of these tables represent a nonlinear function?

Table I

<b>Input</b>	3	6	9	12	15
<b>Output</b>	1	4	9	16	25

Table II

<b>Input</b>	2	4	6	8	10
<b>Output</b>	19	9	-1	-11	-21

Table III

<b>Input</b>	6	3	0	-3	-6
<b>Output</b>	216	27	0	-27	-216

## © Assessment Practice

7. Greta opens a savings account with \$25. She saves \$20 each week. The table represents her account balance.

Greta's Savings Account

<b>Week</b>	0	1	2	3	4	5
<b>Money in Account</b>	25	45	65	85	105	125

### PART A

Write a function that relates the amount of money in Greta's account,  $m$ , to the number of weeks,  $w$ .

### PART B

Is the relation a linear or a nonlinear function? Explain.

