

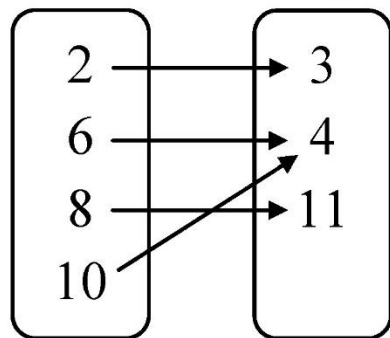
SEMESTER 1 FINAL

CHAPTER 6

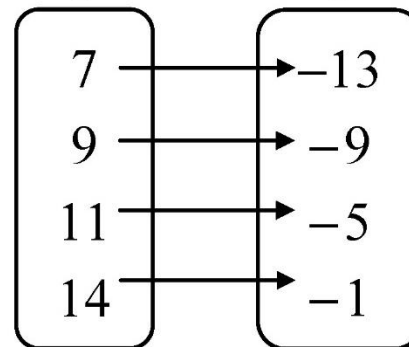
REVIEW

List the ordered pairs shown in the mapping diagram. Then determine whether the relation is a function.

1. Input Output



2. Input Output



Find the value of y for the given value of x .

3. $y = \frac{1}{2}x; x = -18$

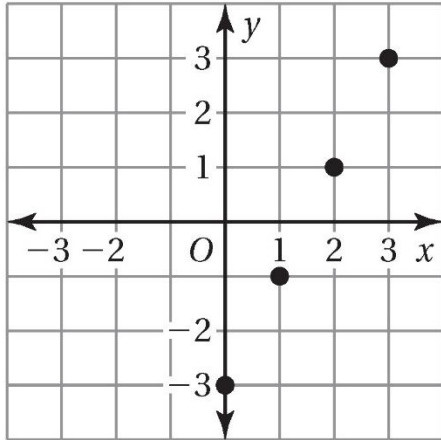
4. $y = -4x + 6; x = 1$

5. Write an equation that describes the function shown by the table.

Input, x	1	2	3	4
Output, y	-5	-10	-15	-20

Use the graph or table to write a linear function that relates y to x .

6.



7.

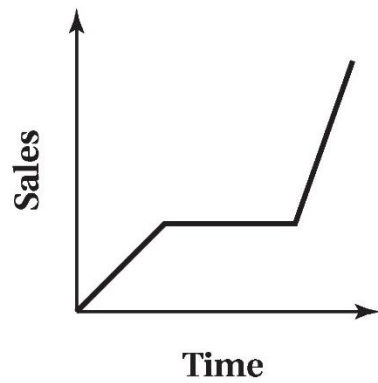
x	-2	0	2	4
y	5	4	3	2

- 8.** The table shows the amount of gasoline g (in gallons) left in your tank after you travel m miles.
- a.** Write a linear function that relates the amount of gasoline to the traveling distance.
 - b.** How many gallons of gasoline are left after you drive 120 miles?

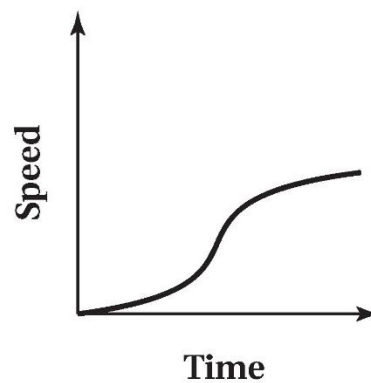
Miles, m	Gallons, g
0	20
20	19
40	18
60	17

Describe the relationship between the two quantities.

5. Tickets

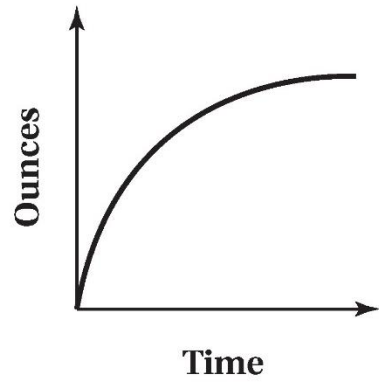


6. Bicycling



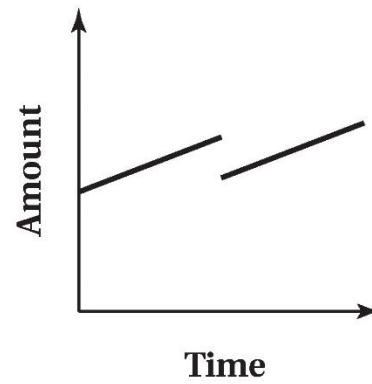
7.

Growth



8.

Account



Find the value of y for the given value of x .

4. $y = \frac{1}{2}x; \quad x = -18$

$y =$ _____

5. $y = -4x + 6; \quad x = 1$

$y =$ _____