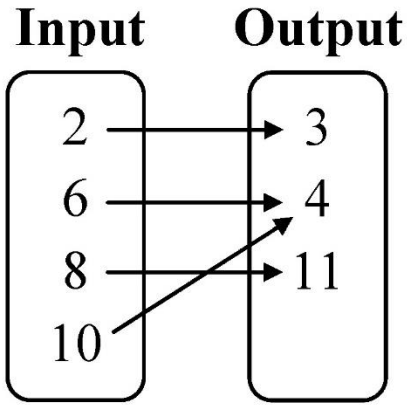
SEMESTER 2 FINAL

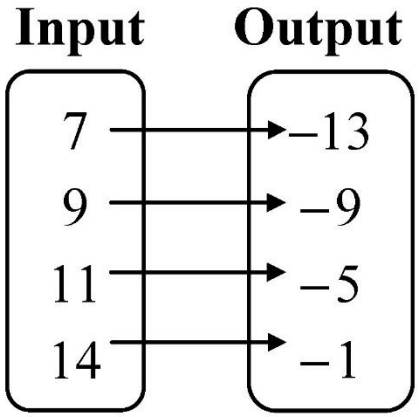
CHAPTER 6 REVIEW

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

1.



2.



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

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

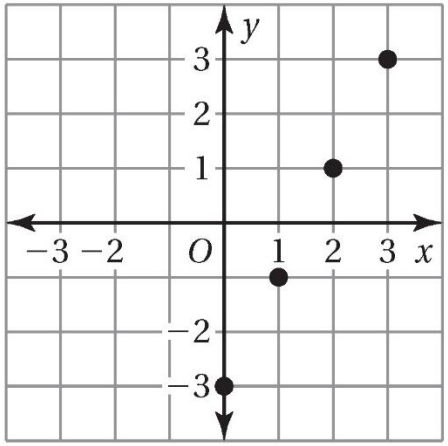
4. $y = -4x + 6;\ x = 1$

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.

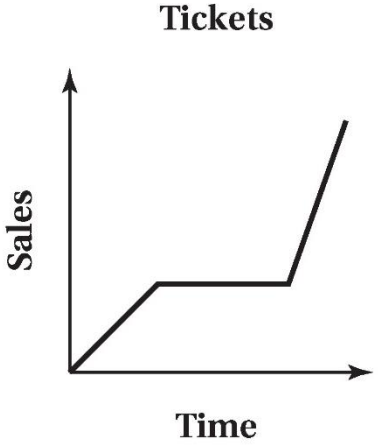
a. Write a linear function that relates the amount of gasoline to the traveling distance.

b. How many gallons of gasoline are left after you drive 120 miles?

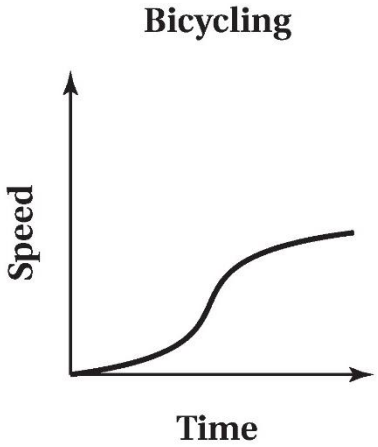
Miles, m	Gallons, g
0	20
20	19
40	18
60	17

Describe the relationship between the two quantities.

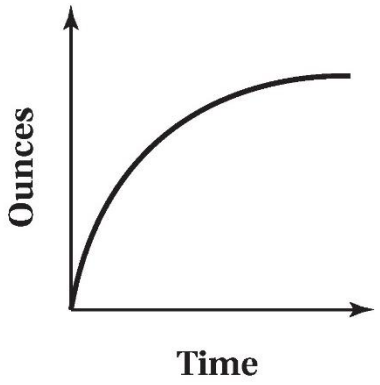
5.



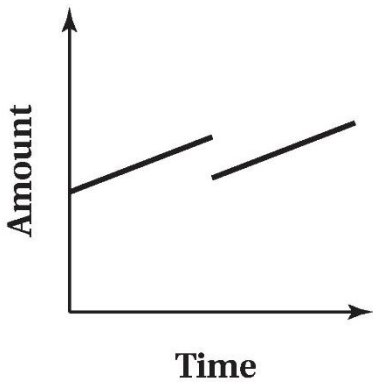
6.



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

$y =$ _____