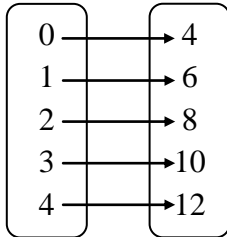


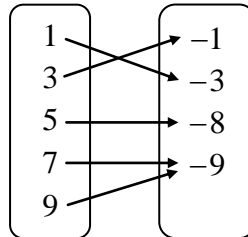
Chapter 6 Practice Test

List the ordered pairs shown in the mapping diagram.

1. **Input** **Output**



2. **Input** **Output**



Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

See left.

7. _____

8. _____

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

3. $y = x - 5$; $x = 9$

4. $y = 4x$; $x = -7$

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

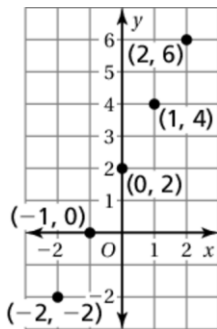
Input, x	0	1	2	3	4
Output, y	0	5	10	15	20

6. Write a function rule for the statement, "The output is 4 less than the input." Then complete the table.

Input, x	1	2	3	4
Output, y				

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

7.



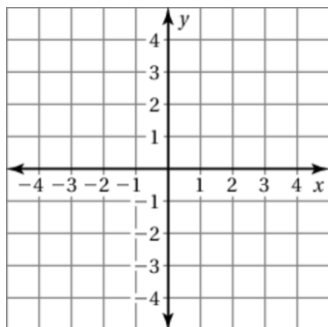
8.

x	-1	0	1	2
y	-4	0	4	8

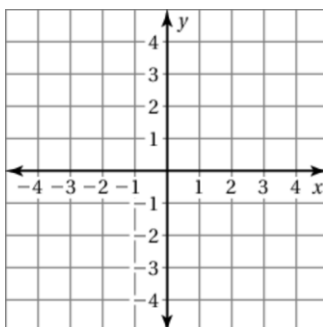
Chapter 6 Test A (continued)

Graph the function.

9. $y = -2x + 1$



10. $y = \frac{1}{4}x$



Answers

9. See left.

10. See left.

11. _____

12. _____

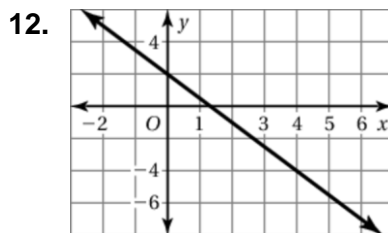
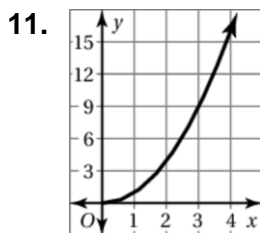
13. _____

14. _____

15. _____

16. _____

Does the table or graph represent a *linear* or *nonlinear* function? Explain.



13.

Input, x	1	2	3	4
Output, y	0	3	8	15

14.

Input, x	1	2	3	4
Output, y	-1	-3	-5	-7

15. The table shows the number y of muffins baked in x pans. What is the missing y -value that makes the table represent a linear function?

Pans, x	3	4	5
Muffins, y	18	?	30

16. The graph shows the water usage for a business. Describe the change in usage from July to December.

