✓ Vocabulary and Concept Check
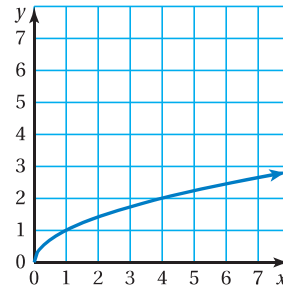
1. **VOCABULARY** Describe four ways to represent a function.

2. **VOCABULARY** Is the function represented by the graph a linear function? Explain.
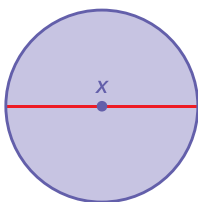

Practice and Problem Solving

The table shows a familiar linear pattern from geometry. Write a linear function that relates y to x. What do the variables x and y represent? Graph the linear function.
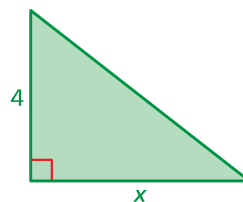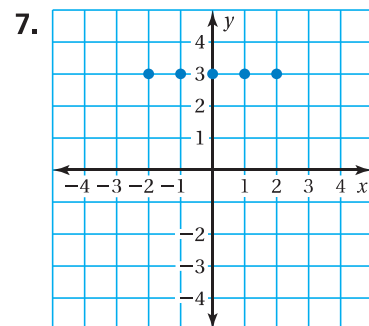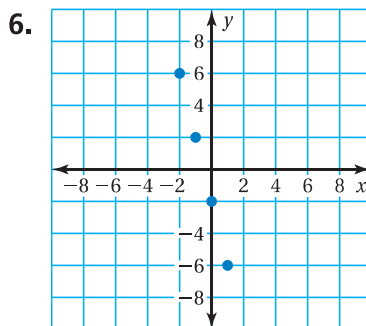
3.

x	1	2	3	4	5
y	π	2π	3π	4π	5π

4.

x	1	2	3	4	5
y	2	4	6	8	10

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

5.

6.

7.

8.

x	−2	−1	0	1
y	−4	−2	0	2

9.

x	−8	−4	0	4
y	2	1	0	−1

10.

x	−3	0	3	6
y	3	5	7	9

11. **MOVIES** The table shows the cost y (in dollars) of renting x movies.

   a. Graph the data. Is the domain of the graph discrete or continuous?

   b. Write a linear function that relates y to x.

   c. How much does it cost to rent three movies?

Number of Movies, x	0	1	2	4
Cost, y	0	3	6	12