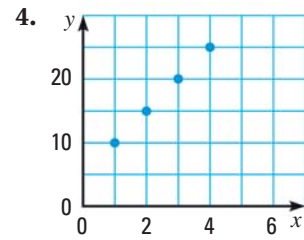
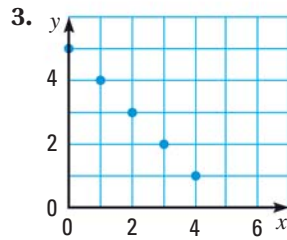
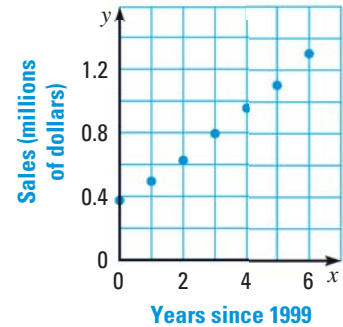


**GUIDED PRACTICE** for Example 3

Write a rule for the function represented by the graph. Identify the domain and the range of the function.

**EXAMPLE 4** Analyze a graph

GUITAR SALES The graph shows guitar sales (in millions of dollars) for a chain of music stores for the period 1999–2005. Identify the independent variable and the dependent variable. Describe how sales changed over the period and how you would expect sales in 2006 to compare to sales in 2005.

**Solution**

The independent variable is the number of years since 1999. The dependent variable is the sales (in millions of dollars). The graph shows that sales were increasing. If the trend continued, sales would be greater in 2006 than in 2005.

**GUIDED PRACTICE** for Example 4

5. **REASONING** Based on the graph in Example 4, is \$1.4 million a reasonable prediction of the chain's sales for 2006? *Explain.*

CONCEPT SUMMARY*For Your Notebook***Ways to Represent a Function**

You can use a verbal rule, an equation, a table, or a graph to represent a function.

Verbal Rule

The output is 1 less than twice the input.

Equation

$$y = 2x - 1$$

Table

x	y
1	1
2	3
3	5
4	7

Graph