

**EXAMPLE 4**

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for Exs. 37–39

- 37. RECORD TEMPERATURES** The table shows the record low temperatures (in degrees Fahrenheit) for Odessa, Texas, for each day in the first week of February. *Explain* how you know the table represents a function. Graph the data from the table.

<b>Day in February</b>	1	2	3	4	5	6	7
<b>Record low (degrees Fahrenheit)</b>	-8	-11	10	8	10	9	11

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- 38. STOCK VALUE** The table shows the change in value (in dollars) of a stock over five days.

<b>Day</b>	1	2	3	4	5
<b>Change in value (dollars)</b>	-0.30	0.10	0.15	0.35	0.11

- Explain* how you know the table represents a function. Graph the data from the table.
  - Describe* any trend in the change in value of the stock.
- 39. MULTI-STEP PROBLEM** The difference between what the federal government collects and what it spends during a fiscal year is called the federal surplus or deficit. The table shows the federal surplus or deficit (in billions of dollars) in the 1990s. (A negative number represents a deficit.)

<b>Years since 1990</b>	0	1	2	3	4	5	6	7	8	9
<b>Surplus or deficit (billions)</b>	-221	-269	-290	-255	-203	-164	-108	-22	69	126

- Graph the function represented by the table.
  - What conclusions can you make from the graph?
- 40. MULTIPLE REPRESENTATIONS** Low-density lipoproteins (LDL) transport cholesterol in the bloodstream throughout the body. A high LDL number is associated with an increased risk of cardiovascular disease. A patient's LDL number in 1999 was 189 milligrams per deciliter (mg/dL). To lower that number, the patient went on a diet. The annual LDL numbers for the patient in years after 1999 are 169, 154, 145, 139, and 136.

<b>Years since 1999</b>	1	2	?	?	?
<b>Changes in LDL (mg/dL)</b>	-20	-15	?	?	?

- Making a Table** Use the given information to copy and complete the table that shows the change in the patient's LDL number since 1999.
- Drawing a Graph** Graph the ordered pairs from the table.
- Describing in Words** Based on the graph, what can you conclude about the diet's effectiveness in lowering the patient's LDL number?