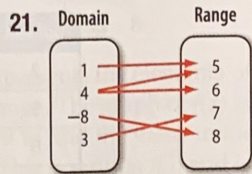
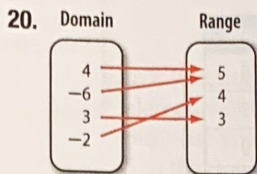


Example 1

Determine whether each relation is a function. Explain.

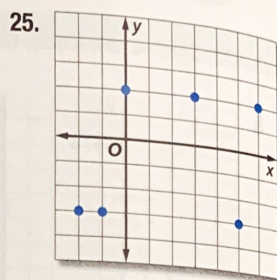
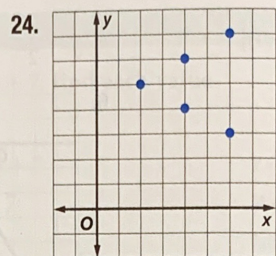


22.

Domain	Range
4	6
-5	3
6	-3
-5	5

23.

Domain	Range
-4	2
3	-5
4	2
9	-7
-3	-5



Example 2

26. **CCSS SENSE-MAKING** The table shows the median home prices in the United States, from 2007 to 2009.

Year	Median Home Price (\$)
2007	234,300
2008	213,200
2009	212,200

- Write a set of ordered pairs representing the data in the table.
- Draw a graph showing the relationship between the year and price.
- What is the domain and range for this data?

Example 3

Determine whether each relation is a function.

- $\{(5, -7), (6, -7), (-8, -1), (0, -1)\}$
- $\{(4, 5), (3, -2), (-2, 5), (4, 7)\}$
- $y = -8$
- $x = 15$
- $y = 3x - 2$
- $y = 3x + 2y$

Examples 4-5 If $f(x) = -2x - 3$ and $g(x) = x^2 + 5x$, find each value.

- $f(-1)$
- $g(-3)$
- $f(4y)$
- $f(r + 2)$
- $f(6)$
- $g(-2) + 2$
- $g(-6m)$
- $5[f(d)]$
- $g(2)$
- $f(0) - 7$
- $f(c - 5)$
- $3[g(n)]$

45. **EDUCATION** The average national math test scores $f(t)$ for 17-year-olds can be represented as a function of the national science scores t by $f(t) = 0.8t + 72$.

- Graph this function. Interpret the function in terms of the context.
- What is the science score that corresponds to a math score of 308?
- What is the domain and range of this function?

