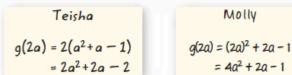
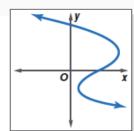
- 1. OPEN ENDED Write a relation of four ordered pairs that is *not* a function.
- Copy the graph at the right. Then draw a vertical line that shows that the graph does not represent a function.
- 3. FIND THE ERROR Teisha and Molly are finding g(2a) for the function $g(x) = x^2 + x - 1$.



Molly
$$g(2a) = (2a)^{2} + 2a - 1$$

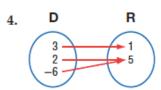
$$= 4a^{2} + 2a - 1$$



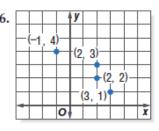
Who is correct? Explain your reasoning.

Guided Practice

Determine whether each relation is a function. Write yes or no.







Graph each relation or equation and find the domain and range. Then determine whether the relation or equation is a function.

7.
$$\{(7, 8), (7, 5), (7, 2), (7, -1)\}$$

9.
$$y = -2x + 1$$

10.
$$x = y^2$$

11. Find
$$f(5)$$
 if $f(x) = x^2 - 3x$

11. Find
$$f(5)$$
 if $f(x) = x^2 - 3x$.
12. Find $h(-2)$ if $h(x) = x^3 + 1$.

Application

WEATHER For Exercises 13–16, use the table of record high temperatures (°F) for January and July.

- 13. Identify the domain and range. Assume that the January temperatures are the domain.
- Write a relation of ordered pairs for the data.
- Graph the relation.
- **16.** Is this relation a function? Explain.

City	Jan.	July
Los Angeles	88	97
Sacramento	70	114
San Diego	88	95
San Francisco	72	105

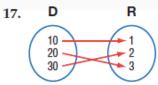
Source: U.S. National Oceanic and Atmospheric Administration

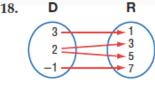
Practice and Apply

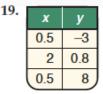
Homework Help			
See Examples			
1, 2			
3			
4			
2			
5			

Extra Practice See page 830.

Determine whether each relation is a function. Write yes or no.







X	у	
2000	\$4000	
2001	\$4300	
2002	\$4000	
2003	\$4500	

20.

