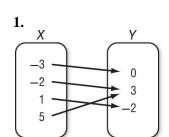
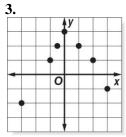
1-7 Practice

Functions

Determine whether each relation is a function.



2.			
X	Υ		
1	5		
-4	-3		
7	6		
1	-2		



6.
$$x = -2$$

7.
$$y = 2$$

If f(x) = 2x - 6 and $g(x) = x - 2x^2$, find each value.

9.
$$f\left(-\frac{1}{2}\right)$$

11.
$$g\left(-\frac{1}{3}\right)$$

13.
$$g(-3) + 13$$

14.
$$f(h + 9)$$

15.
$$g(3y)$$

16.
$$2[g(b) + 1]$$

- 17. WAGES Martin earns \$7.50 per hour proofreading ads at a local newspaper. His weekly wage w can be described by the equation w = 7.5h, where h is the number of hours worked.
 - **a.** Write the equation in function notation.
 - **b.** Find f(15), f(20), and f(25).
- **18. ELECTRICITY** The table shows the relationship between resistance R and current I in a circuit.

Resistance (ohms)	120	80	48	6	4
Current (amperes)	0.1	0.15	0.25	2	3

- **a.** Is the relationship a function? Explain.
- **b.** If the relation can be represented by the equation IR = 12, rewrite the equation in function notation so that the resistance R is a function of the current I.
- **c.** What is the resistance in a circuit when the current is 0.5 ampere?