6-4

Practice

Functions

Determine whether each relation is a function.

1. {(−2, 1), (2, 0), (3, 6), (3, −4), (5, 3)}

2. {(−3, 2), (−2, 2), (1, 2), (−3, 1), (0, 3)}

3. {(−4, 1), (−2, 1), (1, 2), (3, 2), (0, 3)}

4. {(3, 3), (−2, −2), (5, 3), (1, −4), (2, 3)}

5. {(4, −1), (−1, 4), (1, 4), (3, −4), (−4, 3)}

**6.** {(−1, 0), (−2, 2), (1, −2), (3, 5), (1, 3)}

7.
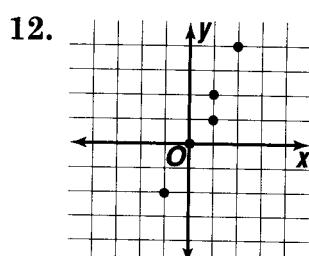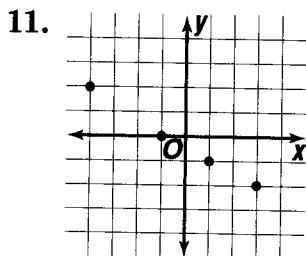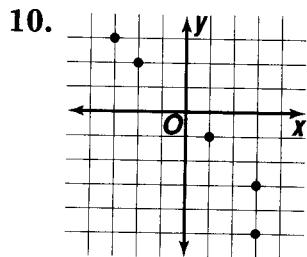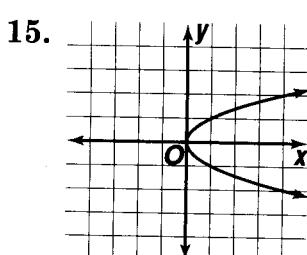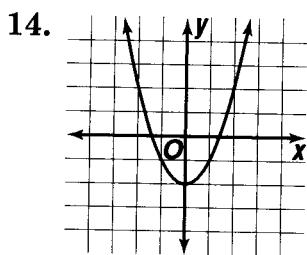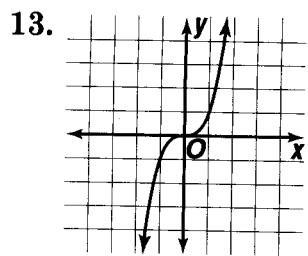
x	y
−2	3
1	3
−4	2
0	1
2	3

8.

x	y
2	−3
−1	0
5	5
3	2
2	1

9.

x	y
−4	3
2	0
1	4
−3	5
3	5

10.

11.

12.

Use the vertical line test to determine whether each relation is a function.

13.

14.

15.

If f(x) = 3x − 2, find each value.

16. $f(4)$

17. $f(-2)$

18. $f(8)$

19. $f(-5)$

20. $f(1.5)$

21. $f(2.4)$

22. $f\left(\frac{1}{3}\right)$

23. $f\left(-\frac{2}{3}\right)$

24. $f(b)$

25. $f(2g)$

26. $f(-3c)$

27. $f(2.5a)$

Algebra: Concepts and Applications