

Practice Set 10.6
Introduction to Functions

In exercises 1-4, (a) determine whether each relation is a function, (b) give the domain and (c) range for each relation.

1. $\{(1, 2)(4, 5)(6, 9)\}$

1a. _____

b. _____

c. _____

2. $\{(3,1)(3,2)(3, 3)(3, 4)\}$

2a. _____

b. _____

c. _____

3. $\{(5, 1)(5, 7)(5, 11)\}$

3a. _____

b. _____

c. _____

4. $\{(1, 2)(2, 3)(3, 4)(4, 5)\}$

4a. _____

b. _____

c. _____

Evaluate each function at the given values.

5. $f(x) = 7 - x$

a. $f(-1)$

5a. _____

b. $f(0)$

b. _____

c. $f(3)$

c. _____

Name _____

Date _____

6. $g(x) = x^2 + 4$

a. $f(-2)$

6a. _____

b. $f(0)$

b. _____

c. $f(4)$

c. _____

7. $f(x) = |-2x + 5|$

a. $f(-4)$

7a. _____

b. $f(0)$

b. _____

c. $f(6)$

c. _____

8. $f(x) = 4x + 3$

a. $f(-1)$

8a. _____

b. $f(0)$

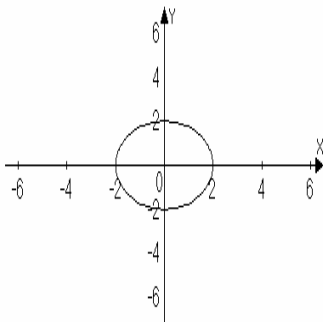
b. _____

c. $f(5)$

c. _____

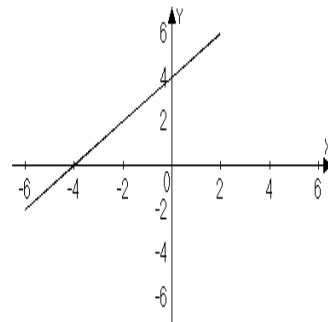
Use the vertical line test to identify graphs in which y is a function of x .

9.



9. _____

10.

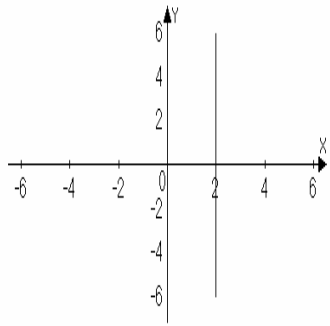


10. _____

Name _____

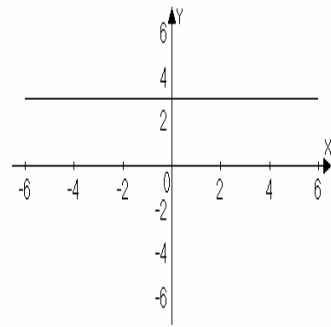
Date _____

11.



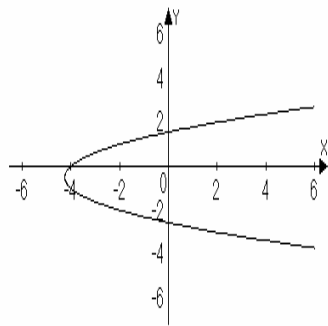
11. _____

12.



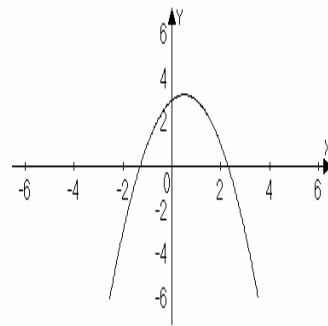
12. _____

13.



13. _____

14.



14. _____