

4-6 Functions (Pages 226–231)

A **function** is a relation in which each element of the domain is paired with *exactly one* element of the range. Equations that are functions can be written in a form called **functional notation**, $f(x)$ (read “ f of x ”). In a function, x is an element of the domain and $f(x)$ is the corresponding element in the range.

Vertical Line Test

If each vertical line passes through no more than one point of the graph of a relation, then the relation is a function.

Examples

- a. Is $\{(1, 2), (1, 3)\}$ a function? Is $\{(1, 4), (3, 2), (5, 4)\}$ a function?

1st relation: *not a function*

This relation has 1 paired with both 2 and 3.

2nd relation: *a function*

In this relation, each x -value is paired with no more than one y -value. A function can have a y -value paired with more than one x -value.

- b. If $f(x) = 3x - 1$ and $g(x) = 2x$, find $f(1)$ and $g(3)$.

$$f(1) = 3(1) - 1$$

$$f(1) = 3(1) - 1 \text{ or } 2$$

Replace x with 1.

$$g(3) = 2(3)$$

$$g(3) = 2(3) \text{ or } 6$$

Replace x with 3.

Practice

Determine whether each relation is a function.

1.

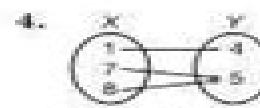
x	y
-1	10
-2	13
-3	16

2.

x	y
2	0
2	-1
3	-4

3.

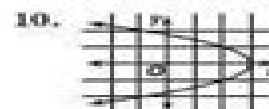
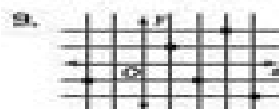
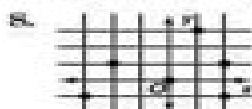
x	y
33	10
35	8
36	10



5. $\{(7, -4), (6, 3), (5, 2)\}$

6. $\{(15, 0), (15, -2)\}$

7. $\{(0, 1), (2, 1), (0, 3)\}$



Given $f(x) = -3x$ and $g(x) = x - 5$, find each value.

11. $f(7)$

12. $g(7)$

13. $g(-8)$

14. $f(-1)$

15. $f(a)$

16. $g(m)$

17. $2[g(9)]$

18. $3[f(2)]$

19. **Standardized Test Practice** Martha pays a flat \$50 a month for the use of her cell phone. She also pays \$0.30 for each minute that she talks over 6 hours. The cost of her phone bill can be represented by $f(x) = 50 + 0.30x$, where x is the number of minutes past 6 hours that she uses the phone. Evaluate $f(60)$ to find the amount of her phone bill if she uses the phone for 7 hours.

A \$68.30

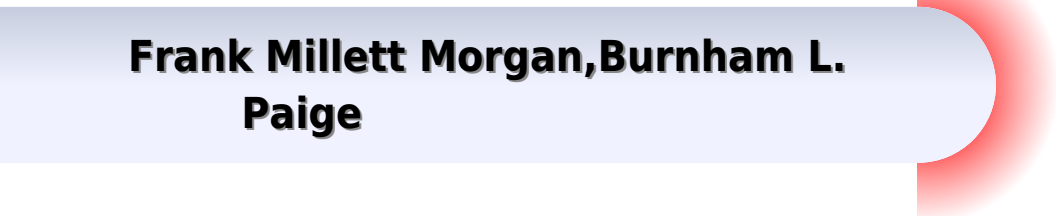
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C \$50.30

D \$18.00

Answers For Algebra 1 Review For Mastery

**Frank Millett Morgan, Burnham L.
Paige**



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Table of Contents Answers For Algebra 1 Review For Mastery

1. Understanding the eBook Answers For Algebra 1 Review For Mastery
 - The Rise of Digital Reading Answers For Algebra 1 Review For Mastery
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Algebra 1 Review For Mastery
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Algebra 1 Review For Mastery
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Algebra 1 Review For Mastery
 - Personalized Recommendations
 - Answers For Algebra 1 Review For Mastery User Reviews and Ratings
 - Answers For Algebra 1 Review For Mastery and Bestseller Lists
5. Accessing Answers For Algebra 1 Review For Mastery Free and Paid eBooks
 - Answers For Algebra 1 Review For Mastery Public Domain eBooks
 - Answers For Algebra 1 Review For Mastery eBook Subscription Services
 - Answers For Algebra 1 Review For Mastery Budget-Friendly Options
6. Navigating Answers For Algebra 1 Review For Mastery eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Algebra 1 Review For Mastery Compatibility with Devices
 - Answers For Algebra 1 Review For Mastery Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Algebra 1 Review For Mastery
 - Highlighting and Note-Taking Answers For Algebra 1 Review For Mastery
 - Interactive Elements Answers For Algebra 1 Review For Mastery
8. Staying Engaged with Answers For Algebra 1 Review For Mastery

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Answers For Algebra 1 Review For Mastery
- 9. Balancing eBooks and Physical Books Answers For Algebra 1 Review For Mastery
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Algebra 1 Review For Mastery
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Algebra 1 Review For Mastery
 - Setting Reading Goals Answers For Algebra 1 Review For Mastery
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Algebra 1 Review For Mastery
 - Fact-Checking eBook Content of Answers For Algebra 1 Review For Mastery
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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