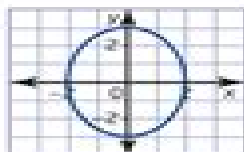


# Chapter 1 Review

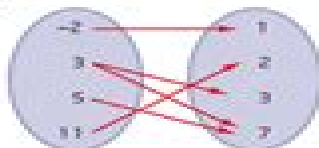
## 1.1 Functions, Domain, and Range, pages 4 to 15

- State the domain and range of each relation.

a)



b)



- c)  $\{(1, 4), (2, 6), (3, 10), (4, 18), (5, 29)\}$   
 d)  $y = 2x^2 + 11$

- Which relations in question 1 are functions? Justify your answers.

## 1.2 Functions and Function Notation, pages 16 to 24

- A linear function machine produces the points  $(2, 5)$  and  $(-3, -15)$ .
  - Determine the equation of the function.
  - Is it possible for a second function to exist that will generate these values? Explain.
- Draw a mapping diagram for these data:  $\{(4, -2), (6, 1), (11, -7), (6, 7), (4, -7)\}$
  - Is this relation a function? Explain.

## 1.3 Maximum or Minimum of a Quadratic Function, pages 25 to 33

- A hall charges \$30 per person for a sports banquet when 120 people attend. For every 10 extra people that attend, the hall will

decrease the price by \$1.50 per person. What number of people will maximize the revenue for the hall?

- The power,  $P$ , in watts, produced by a solar panel is given by the function  $P(I) = -5I^2 + 100I$ , where  $I$  represents the current, in amperes.
  - What value of the current will maximize the power?
  - What is the maximum power?

## 1.4 Skills You Need: Working With Radicals, pages 34 to 42

- Perform each radical operation and simplify where needed.
  - $\sqrt{27} - 4\sqrt{3} + \sqrt{243} - 6\sqrt{81} + 2$
  - $-3\sqrt{3}[\sqrt{3} + 5\sqrt{2}]$
  - $(\sqrt{3} + 5)(5 - \sqrt{3})$
  - $5\sqrt{2}(11 + 2\sqrt{2}) - 4(8 + 3\sqrt{2})$
- Find a simplified expression for the area of each shape.

a)



b)



## 1.5 Solving Quadratic Equations, pages 43 to 51

- Solve each quadratic equation. Give exact answers.
  - $3x^2 - 2x - 2 = 0$
  - $6x^2 - 23x + 20 = 0$
- Use the discriminant to determine the number of roots for each equation.
  - $3x^2 + 4x - 5 = 0$
  - $-2x^2 + 5x - 1 = 0$
  - $9x^2 - 12x + 4 = 0$

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## **Table of Contents Mhr Functions 11chapter 1 Solutions**

1. Understanding the eBook Mhr Functions 11chapter 1 Solutions
  - The Rise of Digital Reading Mhr Functions 11chapter 1 Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Mhr Functions 11chapter 1 Solutions
  - 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 Mhr Functions 11chapter 1 Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mhr Functions 11chapter 1 Solutions
  - Personalized Recommendations
  - Mhr Functions 11chapter 1 Solutions User Reviews and Ratings
  - Mhr Functions 11chapter 1 Solutions and Bestseller Lists

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  - Mhr Functions 11chapter 1 Solutions Public Domain eBooks
  - Mhr Functions 11chapter 1 Solutions eBook Subscription Services
  - Mhr Functions 11chapter 1 Solutions Budget-Friendly Options
6. Navigating Mhr Functions 11chapter 1 Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Mhr Functions 11chapter 1 Solutions Compatibility with Devices
  - Mhr Functions 11chapter 1 Solutions Enhanced eBook Features
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  - Adjustable Fonts and Text Sizes of Mhr Functions 11chapter 1 Solutions
  - Highlighting and Note-Taking Mhr Functions 11chapter 1 Solutions
  - Interactive Elements Mhr Functions 11chapter 1 Solutions
8. Staying Engaged with Mhr Functions 11chapter 1 Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mhr Functions 11chapter 1 Solutions
9. Balancing eBooks and Physical Books Mhr Functions 11chapter 1 Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mhr Functions 11chapter 1 Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mhr Functions 11chapter 1 Solutions
  - Setting Reading Goals Mhr Functions 11chapter 1 Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mhr Functions 11chapter 1 Solutions
  - Fact-Checking eBook Content of Mhr Functions 11chapter 1 Solutions
  - 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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