## Chapter 1

# Solutions to Selected Exercises

#### Section 1.1

 $2. \ \{2,4\} \qquad \qquad 3. \ \{7,10\} \qquad \qquad 5. \ \{2,3,5,6,8,9\} \qquad \qquad 6. \ \{1,3,5,7,9,10\}$ 

8. A 9. 0 11. B 12. {1,4} 14. {1}

15. {2, 3, 4, 5, 6, 7, 8, 9, 10} 18. 1 19. 3

We find that B = {2,3}. Since A and B have the same elements, they are equal.

23. Let x ∈ A. Then x = 1, 2, 3. If x = 1, since 1 ∈ Z<sup>+</sup> and 1<sup>2</sup> < 10, then x ∈ B. If x = 2, since 2 ∈ Z<sup>+</sup> and 2<sup>2</sup> < 10, then x ∈ B. If x = 3, since 3 ∈ Z<sup>+</sup> and 3<sup>2</sup> < 10, then x ∈ B. Thus if x ∈ A, then x ∈ B.</p>

Now suppose that  $x \in B$ . Then  $x \in \mathbb{Z}^+$  and  $x^2 < 10$ . If  $x \ge 4$ , then  $x^2 > 10$  and, for these values of x,  $x \notin B$ . Therefore x = 1, 2, 3. For each of these values,  $x^2 < 10$  and x is indeed in B. Also, for each of the values  $x = 1, 2, 3, x \in A$ . Thus if  $x \in B$ , then  $x \in A$ . Therefore A = B.

26. Since  $(-1)^3 - 2(-1)^2 - (-1) + 2 = 0$ ,  $-1 \in B$ . Since  $-1 \notin A$ ,  $A \notin B$ .

27. Since  $3^2-1>3$ ,  $3\notin B$ . Since  $3\in A$ ,  $A\neq B$ . 30. Equal 31. Not equal

34. Let  $x \in A$ . Then x = 1, 2. If x = 1,

$$x^3 - 6x^2 + 11x = 1^3 - 6 \cdot 1^2 + 11 \cdot 1 = 6.$$

Thus  $x \in B$ . If x = 2,

$$x^3 - 6x^2 + 11x = 2^3 - 6 \cdot 2^2 + 11 \cdot 2 = 6.$$

Again  $x \in B$ . Therefore  $A \subseteq B$ .

Let x ∈ A. Then x = (1, 1) or x = (1, 2). In either case, x ∈ B. Therefore A ⊆ B.

Since (-1)<sup>3</sup> - 2(-1)<sup>2</sup> - (-1) + 2 = 0, -1 ∈ A. However, -1 ∉ B. Therefore A is not a subset of B.

39. Consider 4, which is in A. If 4 ∈ B, then 4 ∈ A and 4 + m = 8 for some m ∈ C. However, the only value of m for which 4 + m = 8 is m = 4 and 4 ∉ C. Therefore 4 ∉ B. Since 4 ∈ A and 4 ∉ B, A is not a subset of B.

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### **Table of Contents Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals**

- 1. Understanding the eBook Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - The Rise of Digital Reading Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - Personalized Recommendations
  - o Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals User Reviews and Ratings

- Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals and Bestseller Lists
- 5. Accessing Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals Free and Paid eBooks
  - Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals Public Domain eBooks
  - Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals eBook Subscription Services
  - Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals Budget-Friendly Options
- 6. Navigating Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals eBook Formats
  - o ePub, PDF, MOBI, and More
  - o Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals Compatibility with Devices
  - Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - Highlighting and Note-Taking Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - Interactive Elements Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
- 8. Staying Engaged with Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
- 9. Balancing eBooks and Physical Books Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - Setting Reading Goals Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - Fact-Checking eBook Content of Discrete Mathematics Johnsonbaugh 7th Edition Solution Manuals
  - 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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