

Chapter Test**Form A****Chapter 1**

1. Graph each number on a number line.

a. 3

b. -5

c. $\sqrt{3}$

d. $\frac{2}{3}$

e. -2.75

f. $-\sqrt{16}$

2. What properties of real numbers are used in each step of the following simplification?

$$\frac{1}{4}(3 + 4) = \frac{1}{4}(4 + 3) \quad \text{a. } \underline{\hspace{2cm}}$$

$$= \left(\frac{1}{4} \cdot 4\right) + 3 \quad \text{b. } \underline{\hspace{2cm}}$$

$$= 1 + 3 \quad \text{c. } \underline{\hspace{2cm}}$$

$$= 3 \quad \text{d. } \underline{\hspace{2cm}}$$

Simplify.

3. $|-5 + 8| - 9$

4. $-3|6 + (-11)|$

Evaluate each expression for the given value of the variable.

5. $-x^2 + 4x - 17$; $x = 5$

6. $\frac{6(x - 2) - 4(x + 1)}{3x + 1}$; $x = 3$

Simplify by combining like terms.

7. $4m - 7n - 2m + 6n$

8. $\frac{1}{2}(x^2 + 6y) - (4y - x^2)$

9. The expression
- $19.95 + 0.20x$
- models the daily cost of renting a car. In the expression,
- x
- represents the number of miles the car is driven. Find the cost of renting a car for a day when the car is driven 50 miles.

Solve each equation.

10. $4w - 17 = 3w - 11$

11. $3r + 3.7 = 5r - 2.5$

12. $3(5t + 2) = 36$

13. $2(5d + 13) - 14 = 8$

14. $7(a + 5) - 12 = 3(a + 2)$

15. $3\left(x - \frac{1}{2}\right) = 5\left(x + \frac{2}{3}\right) + 4x - 1$

Solve each equation for x . State any restrictions on the variables.

16. $ax - bx = 3x$

17. $\frac{x-3}{6} + 3 = x$

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Table of Contents Prentice Hall Algebra Chapter Test

1. Understanding the eBook Prentice Hall Algebra Chapter Test
 - The Rise of Digital Reading Prentice Hall Algebra Chapter Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Prentice Hall Algebra Chapter Test
 - 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 Prentice Hall Algebra Chapter Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Prentice Hall Algebra Chapter Test
 - Personalized Recommendations
 - Prentice Hall Algebra Chapter Test User Reviews and Ratings
 - Prentice Hall Algebra Chapter Test and Bestseller Lists
5. Accessing Prentice Hall Algebra Chapter Test Free and Paid eBooks

- Prentice Hall Algebra Chapter Test Public Domain eBooks
- Prentice Hall Algebra Chapter Test eBook Subscription Services
- Prentice Hall Algebra Chapter Test Budget-Friendly Options
- 6. Navigating Prentice Hall Algebra Chapter Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Prentice Hall Algebra Chapter Test Compatibility with Devices
 - Prentice Hall Algebra Chapter Test Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Prentice Hall Algebra Chapter Test
 - Highlighting and Note-Taking Prentice Hall Algebra Chapter Test
 - Interactive Elements Prentice Hall Algebra Chapter Test
- 8. Staying Engaged with Prentice Hall Algebra Chapter Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Prentice Hall Algebra Chapter Test
- 9. Balancing eBooks and Physical Books Prentice Hall Algebra Chapter Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Prentice Hall Algebra Chapter Test
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Prentice Hall Algebra Chapter Test
 - Setting Reading Goals Prentice Hall Algebra Chapter Test
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Prentice Hall Algebra Chapter Test
 - Fact-Checking eBook Content of Prentice Hall Algebra Chapter Test
 - 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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 $\text{MnO}_4^- + 7\text{H}^+ + 5\text{e}^- \rightarrow \text{Mn}^{2+} + 4\text{H}_2\text{O}$ acidic
 $\text{MnO}_4^- + 2\text{H}_2\text{O} + 3\text{e}^- \rightarrow \text{MnO}_2 + 4\text{OH}^-$ basic

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