

Chapter 7 Answers

Practice 7-1

1. 12 2. -5 3. not a real number 4. 0.1 5. 0.3 6. 3
7. -3 8. 0.3 9. 6 10. -7 11. -0.4 12. $\frac{10}{3}$ 13. -20, 20
14. no real square roots 15. -100, 100 16. -0.25, 0.25
17. no real fourth roots 18. -4, 4 19. -0.1, 0.1 20. -5, 5
21. $9x^2$ 22. $11|y^2|$ 23. $2x^2$ 24. $5x^3$ 25. $3xy^3$
26. $x - 9$ 27. $5(x + 2y)^2$ 28. $\frac{4x^3}{y}$ 29. -2, 2 30. -3, 3
31. -0.4, 0.4 32. $-\frac{4}{y}, \frac{4}{y}$ 33. 20 cm 34a. about 25.30 ft/sec
34b. about 10.48 ft/sec

Practice 7-2

1. $2\sqrt{6}$ 2. $9xy\sqrt[3]{y}$ 3. $5yz\sqrt[3]{6xz}$ 4. $48x$ 5. $2xy$
6. $27\sqrt{2y}$ 7. $\frac{3\sqrt{2x}}{2}$ 8. $\frac{\sqrt{3y}}{3}$ 9. $\frac{\sqrt[3]{9x^2y^2}}{3y}$ 10. $\frac{\sqrt[3]{54x}}{3x}$
11. $\frac{\sqrt{2xy}}{4y}$ 12. $\frac{\sqrt[3]{6abc^2}}{2bc}$ 13. 10 14. 54 15. 9 16. -3
17. $3x^2\sqrt{2}$ 18. $2xy^3$ 19. $6x\sqrt{x}$ 20. $5z\sqrt[3]{y^2z}$
21. $3x^3\sqrt{2}$ 22. $-2a^4\sqrt[3]{2}$ 23. $xy^2\sqrt{z}$ 24. $4x^3\sqrt[3]{x^3}$
25. $6xy\sqrt[3]{x}$ 26. $5x\sqrt{3x}$ 27. $5xy^2\sqrt[3]{x}$ 28. $\sqrt{2}$ 29. $\sqrt[3]{4x}$
30. $\frac{3}{k}$ 31. $\frac{2x}{25y^2}$ 32. $\frac{\sqrt[3]{12y}}{2}$ 33. $\frac{3\sqrt{3}}{a}$
34a. $r = \sqrt{\frac{3V}{4\pi}}$, $r = \frac{\sqrt[3]{6\pi^2V}}{2\pi}$ 34b. 2.88 in.

Practice 7-3

1. -63 2. -6 3. 73 4. $11\sqrt{3}$ 5. $5\sqrt{2} + 2\sqrt{3}$
6. $3\sqrt{7} - 7\sqrt[3]{x}$ 7. $11\sqrt[3]{xy}$ 8. $-2 - \sqrt{3}$ 9. $10 - 5\sqrt{3}$
10. $-\frac{3 + \sqrt{5}}{2}$ 11. $\frac{22 + 14\sqrt{3}}{13}$ 12. $22\sqrt{2}$ 13. $4\sqrt{2}$
14. 0 15. $13\sqrt[3]{3}$ 16. $-3 - \sqrt{5}$ 17. $-38 + 7\sqrt{10}$
18. $67 - 15\sqrt{7}$ 19. $28 - 16\sqrt{3}$ 20. $9 + 2\sqrt{14}$
21. $30 + 12\sqrt{6}$ 22. $12\sqrt{7}$ 23. $18\sqrt{10}$
24. $41\sqrt{3} - 3\sqrt{6}$ 25. $6\sqrt[3]{3} + 4\sqrt[3]{9}$ 26. $105\sqrt{x}$
27. $26y\sqrt{5}$ 28. $6y + 13\sqrt{5y} - 25$ 29. $x - 3$
30. $\frac{\sqrt{5} - 2\sqrt{2}}{3}$ 31. $\sqrt{2}$ 32. $\frac{x + 2\sqrt[3]{x^2}}{x}$
33a. $(900 + 300\sqrt{3} + 300\sqrt{6})$ ft or about 2154 ft
33b. $\frac{270,000 + 90,000\sqrt{3}}{2}$ ft² or about 212,942 ft²

Practice 7-4

1. 3 2. 81 3. 32 4. 256 5. 1 6. 4 7. -1 8. 9 9. 2
10. $x^{\frac{2}{3}}$ 11. $2y^{\frac{2}{3}}$ 12. 4 13. 1 14. $\frac{1}{2}$ 15. $\frac{9}{4}$ 16. 0

17. $12x^{\frac{2}{3}}$ 18. $\frac{3}{y^{\frac{2}{3}}}$ 19. $9ab^{\frac{2}{3}}$ 20. $\frac{1}{y^{\frac{2}{3}}}$ 21. $\frac{b^3}{a^{\frac{2}{3}}}$ 22. $y^{\frac{10}{3}}$
23. $\frac{1}{x^{\frac{2}{3}}}$ 24. $8a^{\frac{2}{3}}$ 25. $\frac{1}{y^{\frac{2}{3}}}$ 26. $12x^{\frac{10}{3}}$ 27. $\frac{3x^2}{y}$
28. 10.1% 29. $\sqrt[3]{x^2}$ 30. $\sqrt[3]{2y}$ 31. $\sqrt{a^3}$ 32. $\sqrt[3]{b}$
33. $\sqrt[3]{z^2}$ 34. $\sqrt[3]{ab}$ 35. $\sqrt[3]{m^{12}}$ 36. $\frac{1}{\sqrt[3]{r^2}}$ 37. $\frac{1}{\sqrt[3]{a^2}}$
38. $x^{\frac{2}{3}}$ 39. $m^{\frac{1}{3}}$ 40. $(5y)^{\frac{1}{3}}$ 41. $2^{\frac{1}{3}}y^{\frac{2}{3}}$ 42. $b^{\frac{2}{3}}$ 43. $(-6)^{\frac{2}{3}}$
44. $36a^2$ 45. $n^{\frac{2}{3}}$ 46. $(5ab)^{\frac{1}{3}}$

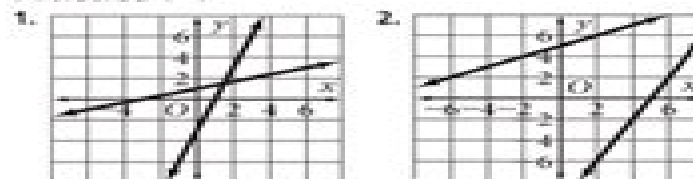
Practice 7-5

1. 127 2. -8, 8 3. 9 4. 3 5. no solution 6. 25 7. 9
8. -14 9. 1 10. 27 11. 4, 2 12. 9 13. 7 14. 2 15. 4
16. 29, -25 17. 10 18. 16 19. 4 20. 13 21. 4
22. -27, 27 23. 64 24. 0, -1 25. no solution 26. 64
27. 23 28. 0 29. no solution 30. -2 31. 1 32. -123
33. 8 34. 12 35. 1 36. 16 37. 8 38. -6, 2 39. 2
40. 1 41. 2 42. 66

Practice 7-6

- 1a. $f(x) = 1.8x$ 1b. $g(x) = 0.75x$ 1c. $g(f(150)) = \$202.50$
1d. No; it doesn't matter whether you first multiply by 0.75
or by 1.8. 2. $2x^2 + 4x + 2$; all real numbers
3. $-2x^2 + 4x - 4$; all real numbers
4. $8x^3 - 2x^2 + 12x - 3$; all real numbers
5. $\frac{4x - 1}{2x^2 + 3}$; all real numbers 6. $2x^2 - 4x + 4$; all real
numbers 7. $\frac{2x^2}{4x} + \frac{3}{4}$; all real numbers except $\frac{1}{4}$ 8. -4
9. -2 10. 7 11. $-\frac{3x + 2}{5}$ 12. $-4x + 7$
13. $2x^2 - 3x - 7$ 14. $\frac{17}{5}$ 15. $\frac{16}{5}$ 16. $-8x + 6$ 17. $-\frac{4}{3}$
18. $-\frac{3x + 2}{5}$ 19. $\frac{7}{5}$ 20. $3x^2 - 13$
21. $3x^3 + 2x^2 - 15x - 10$ 22. $-2x^2 + 3x + 12$
23a. $f(x) = 0.75x$ 23b. $g(x) = x - 5$
23c. $g(f(50)) = \$32.50$ 23d. Yes; multiplying by 0.75 and
then subtracting by 5 is different than subtracting by 5 and
then multiplying by 0.75.

Practice 7-7



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Table of Contents Algebra Prentice Hall Answers Lesson 7

1. Understanding the eBook Algebra Prentice Hall Answers Lesson 7
 - The Rise of Digital Reading Algebra Prentice Hall Answers Lesson 7
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Prentice Hall Answers Lesson 7
 - 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 Algebra Prentice Hall Answers Lesson 7
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Prentice Hall Answers Lesson 7
 - Personalized Recommendations
 - Algebra Prentice Hall Answers Lesson 7 User Reviews and Ratings
 - Algebra Prentice Hall Answers Lesson 7 and Bestseller Lists
5. Accessing Algebra Prentice Hall Answers Lesson 7 Free and Paid eBooks
 - Algebra Prentice Hall Answers Lesson 7 Public Domain eBooks
 - Algebra Prentice Hall Answers Lesson 7 eBook Subscription Services

- Algebra Prentice Hall Answers Lesson 7 Budget-Friendly Options
- 6. Navigating Algebra Prentice Hall Answers Lesson 7 eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra Prentice Hall Answers Lesson 7 Compatibility with Devices
 - Algebra Prentice Hall Answers Lesson 7 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra Prentice Hall Answers Lesson 7
 - Highlighting and Note-Taking Algebra Prentice Hall Answers Lesson 7
 - Interactive Elements Algebra Prentice Hall Answers Lesson 7
- 8. Staying Engaged with Algebra Prentice Hall Answers Lesson 7
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra Prentice Hall Answers Lesson 7
- 9. Balancing eBooks and Physical Books Algebra Prentice Hall Answers Lesson 7
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra Prentice Hall Answers Lesson 7
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra Prentice Hall Answers Lesson 7
 - Setting Reading Goals Algebra Prentice Hall Answers Lesson 7
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra Prentice Hall Answers Lesson 7
 - Fact-Checking eBook Content of Algebra Prentice Hall Answers Lesson 7
 - 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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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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over 3 000 different kinds of atomic nuclei have been discovered in elements that span the periodic table yet each one has unique properties some may exist forever others transform within a fraction of a second some can power satellites as they

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radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as radioactivity

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it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom

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1Å 10 10 m where Å is an ångström according to anders jonas Ångström the term

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