

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. $\frac{1}{y}$ 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. $(5ab)^{\frac{1}{3}}$

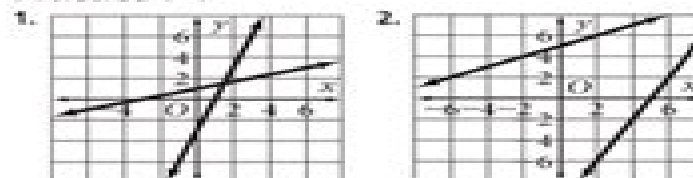
Practice 7-5

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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David Clemson, Wendy Clemson



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Maths Action Plans David Clemson, Nelson, 2003-06 *Maths Action Plans* is a series of four books for Years 4 6 P5 7 offering flexible supportive teacher and pupil resources and coherent coverage of the five strands of the Framework for Teaching Mathematics The series provides inspiring flexible activities that can be fitted into any maths scheme Each title contains clear learning objectives linked to the Framework for Teaching Maths the National Curriculum Programme of Study and the 5 14 National Guidelines for Mathematics lesson plans with up to three levels of differentiation supplementary activities for consolidation or linked work and suggestions for the application of ICT skills **Everyday Mathematics: Teacher's lesson guide v. 1] [v.3] Teacher's lesson guide v. 2**, 2004 **Maths Connect** Sue Bright, Catherine Roe, 2005 *Maths connect* provides consolidation stretch and challenge for pupils of all abilities This pupil's text in the red tier offers objectives from the medium term plans allowing more able mathematicians to build up to really challenging work

Leadership Education and Training (LET) 4, 2001 **Maths Connect** Catherine Roe, Lynne McClure, 2004 *Maths connect* provides consolidation stretch and challenge for pupils of all abilities This pupil's text in the red tier offers objectives from the medium term plans allowing more able mathematicians to build up to really challenging work Everyday Mathematics 2 Grade Teacher's Lesson Guide Volume 1 Max Bell, 2004 *Maths Connect* Dave Kirkby, Lynne McClure, 2004 *Transforming standards at KS3* links concepts and skills to build confidence and understanding provides key vocabulary to ensure students understand key terms features fully tiered motivating activities to get the best from each individual and has clearly defined learning objectives so students understand what they are trying to achieve *Maths Connect 2 Blue* Sue Bright, Lynne McClure, 2004 *Maths connect* provides consolidation stretch and challenge for pupils of all abilities This pupil's text in the blue tier provides an ideal route through Key Stage 3 for the middle ability pupils *Algebra: Themes, Tools, Concepts -- Teachers' Edition* Henri Picciotto, Anita Wah, 1994 **Number** David Clemson, Wendy Clemson, 2003 *Maths Action Plans* is a series of four books for Years 4 6 P5 7 offering flexible supportive teacher and pupil resources and coherent coverage of the five strands of the Framework for Teaching Mathematics The series provides inspiring flexible activities that can be fitted into any maths scheme Each title contains clear learning objectives linked to the Framework for Teaching Maths the National Curriculum Programme of Study and the 5 14 National Guidelines for Mathematics lesson plans with up to three levels of differentiation supplementary activities for consolidation or linked work and suggestions for the application of ICT skills Resources in Education, 2001-04 **Research in Education**, 1974 **Super Minds Level 3 Teacher's Book** Melanie Williams, Günter Gerngross, Peter Lewis-Jones, 2012-09-13 *Super Minds* is a seven level course for young learners designed to improve students memory along with their language skills The Workbook includes exercises to develop language creatively cross curricular thinking with fascinating English for school sections and lively stories that explore social values CEF A1 **Math Trailblazers**, 1997 *Eureka Math Grade 7 Study Guide* Great Minds, 2016-04-25 *Eureka Math* is a

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Industrial Arts & Vocational Education, 1966 *Math Advantage* Grace M. Burton, Harcourt Brace, 1998-05-22

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Table of Contents Sequences And Seriees Probelms Unit 12 Lesson 01 Key

1. Understanding the eBook Sequences And Seriees Probelms Unit 12 Lesson 01 Key
 - The Rise of Digital Reading Sequences And Seriees Probelms Unit 12 Lesson 01 Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Sequences And Seriees Probelms Unit 12 Lesson 01 Key
 - 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 Sequences And Seriees Probelms Unit 12 Lesson 01 Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sequences And Seriees Probelms Unit 12 Lesson 01 Key
 - Personalized Recommendations
 - Sequences And Seriees Probelms Unit 12 Lesson 01 Key User Reviews and Ratings
 - Sequences And Seriees Probelms Unit 12 Lesson 01 Key and Bestseller Lists
5. Accessing Sequences And Seriees Probelms Unit 12 Lesson 01 Key Free and Paid eBooks

- Sequences And Series Probelms Unit 12 Lesson 01 Key Public Domain eBooks
- Sequences And Series Probelms Unit 12 Lesson 01 Key eBook Subscription Services
- Sequences And Series Probelms Unit 12 Lesson 01 Key Budget-Friendly Options
- 6. Navigating Sequences And Series Probelms Unit 12 Lesson 01 Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Sequences And Series Probelms Unit 12 Lesson 01 Key Compatibility with Devices
 - Sequences And Series Probelms Unit 12 Lesson 01 Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sequences And Series Probelms Unit 12 Lesson 01 Key
 - Highlighting and Note-Taking Sequences And Series Probelms Unit 12 Lesson 01 Key
 - Interactive Elements Sequences And Series Probelms Unit 12 Lesson 01 Key
- 8. Staying Engaged with Sequences And Series Probelms Unit 12 Lesson 01 Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sequences And Series Probelms Unit 12 Lesson 01 Key
- 9. Balancing eBooks and Physical Books Sequences And Series Probelms Unit 12 Lesson 01 Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sequences And Series Probelms Unit 12 Lesson 01 Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sequences And Series Probelms Unit 12 Lesson 01 Key
 - Setting Reading Goals Sequences And Series Probelms Unit 12 Lesson 01 Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sequences And Series Probelms Unit 12 Lesson 01 Key
 - Fact-Checking eBook Content of Sequences And Series Probelms Unit 12 Lesson 01 Key
 - 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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