



Review: Radicals & Rational Exponents

Directions: Work **together** to simplify each problem. Do not divide up the work! Each person should be participating. At the end of class, one person's paper will be chosen at random and graded for the group.

Simplifying

$$1. \sqrt{300m^4n^{25}} = \sqrt{100m^4n^{24}} \cdot \sqrt{3n}$$

$$= 10m^2n^{12}\sqrt{3n}$$

$$2. \sqrt[3]{-72a^9b^3} = \sqrt[3]{-8a^9b^3} \cdot \sqrt[3]{9a^0b^0} = -2a^3b\sqrt[3]{9}$$

$$3. \sqrt[3]{81m^{12}n^{20}} = \sqrt[3]{81m^{12}n^{18}} \cdot \sqrt[3]{n^2}$$

$$= 3m^4n^6\sqrt[3]{n^2}$$

Operations

$$4. 4\sqrt{98} + \sqrt{150} - 2\sqrt{32}$$

$$4 \cdot 7\sqrt{2} + 5\sqrt{6} - 2 \cdot 4\sqrt{2}$$

$$28\sqrt{2} + 5\sqrt{6} - 8\sqrt{2}$$

$$20\sqrt{2} + 5\sqrt{6}$$

$$5. 10\sqrt[3]{5} + 7\sqrt[3]{40} - \sqrt[3]{320}$$

$$10\sqrt[3]{5} + 7 \cdot 2\sqrt[3]{5} - 4\sqrt[3]{5}$$

$$10\sqrt[3]{5} + 14\sqrt[3]{5} - 4\sqrt[3]{5}$$

$$20\sqrt[3]{5} + 10\sqrt[3]{5}$$

$$6. 3\sqrt[3]{8} - 7\sqrt[3]{32} + 2\sqrt[3]{128} = 21 - 14 = 7$$

$$7. \sqrt[3]{-6x^3} \cdot \sqrt[3]{18x^4} = \sqrt[3]{-108x^7} = \sqrt[3]{-27 \cdot 4x^6} \cdot \sqrt[3]{x} = -3x^2\sqrt[3]{4x}$$

$$8. \sqrt{3}(2 - \sqrt{24}) = 2\sqrt{3} - \sqrt{72}$$

$$2\sqrt{3} - 6\sqrt{3} = -4\sqrt{3}$$

$$9. (4 + 3\sqrt{5}) \cdot (-2 + \sqrt{5})$$

$$-8 + 4\sqrt{5} - 6\sqrt{5} + 15$$

$$-8 + 11\sqrt{5} - 6\sqrt{5} + 15$$

$$7 + 5\sqrt{5}$$

$$10. (1 + 7\sqrt{3})(1 - 7\sqrt{3})$$

$$1 - 7\sqrt{3} + 7\sqrt{3} - 49 \cdot 3$$

$$1 - 147$$

$$-146$$

$$11. (3 + \sqrt{6})^2$$

$$(3 + \sqrt{6}) \cdot (3 + \sqrt{6})$$

$$9 + 3\sqrt{6} + 3\sqrt{6} + 6$$

$$15 + 6\sqrt{6}$$

$$12. \frac{-45\sqrt{156}}{9\sqrt{3}} = -5\sqrt{52} = -5 \cdot 2\sqrt{13} = -10\sqrt{13}$$

$$13. \frac{\sqrt[3]{r^{20}s^9}}{\sqrt[3]{r^2s}} = \sqrt[3]{r^{18}s^8} = \sqrt[3]{r^6s^6} \cdot \sqrt[3]{r^6s^2} = r^2s^2\sqrt[3]{r^6s^2}$$

Lesson 9 Rational Exponents And Radicals

F Rizvi



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Table of Contents Lesson 9 Rational Exponents And Radicals

1. Understanding the eBook Lesson 9 Rational Exponents And Radicals
 - The Rise of Digital Reading Lesson 9 Rational Exponents And Radicals
 - Advantages of eBooks Over Traditional Books
2. Identifying Lesson 9 Rational Exponents And Radicals
 - 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 Lesson 9 Rational Exponents And Radicals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lesson 9 Rational Exponents And Radicals
 - Personalized Recommendations
 - Lesson 9 Rational Exponents And Radicals User Reviews and Ratings
 - Lesson 9 Rational Exponents And Radicals and Bestseller Lists
5. Accessing Lesson 9 Rational Exponents And Radicals Free and Paid eBooks
 - Lesson 9 Rational Exponents And Radicals Public Domain eBooks
 - Lesson 9 Rational Exponents And Radicals eBook Subscription Services
 - Lesson 9 Rational Exponents And Radicals Budget-Friendly Options
6. Navigating Lesson 9 Rational Exponents And Radicals eBook Formats
 - ePub, PDF, MOBI, and More
 - Lesson 9 Rational Exponents And Radicals Compatibility with Devices
 - Lesson 9 Rational Exponents And Radicals Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lesson 9 Rational Exponents And Radicals
 - Highlighting and Note-Taking Lesson 9 Rational Exponents And Radicals
 - Interactive Elements Lesson 9 Rational Exponents And Radicals
8. Staying Engaged with Lesson 9 Rational Exponents And Radicals

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Lesson 9 Rational Exponents And Radicals
- 9. Balancing eBooks and Physical Books Lesson 9 Rational Exponents And Radicals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lesson 9 Rational Exponents And Radicals
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lesson 9 Rational Exponents And Radicals
 - Setting Reading Goals Lesson 9 Rational Exponents And Radicals
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lesson 9 Rational Exponents And Radicals
 - Fact-Checking eBook Content of Lesson 9 Rational Exponents And Radicals
 - 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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