

Name: _____

Unit 6: Exponents & Exponential Functions

Date: _____ Bell: _____

Homework 4: Negative Exponents

**Directions:** Simplify the following monomials. Your answer should contain positive exponents only!1. x^{-7}

$$\frac{1}{x^7}$$

2. $5x^2y^3$

$$\frac{5x^2}{y^3}$$

3. $-4a^{-2}b^{-2}$

$$\frac{-4}{a^2b^2}$$

4. $(ab^2)^{-4}$

$$a^{-4}b^{-8}$$

$$= \boxed{\frac{1}{a^4b^8}}$$

5. $-8(x^3y^4)^{-5}$

$$-8x^{15}y^{-20}$$

$$= \boxed{\frac{-8x^{15}}{y^{20}}}$$

6. $(3x)^{-3}$

$$\frac{1}{27}x^{-3}$$

$$= \boxed{\frac{1}{27x^3}}$$

7. $(a^2)(a^3)$

$$a^{-5}$$

$$= \boxed{\frac{1}{a^5}}$$

8. $(x^3)^{-3}(-2y^5)^4$

$$x^{-9} \cdot 16y^{20}$$

$$= \boxed{\frac{16y^{20}}{x^9}}$$

9. $(a^2b^3)^{-2}(a^5b^4)^{-3}$

$$a^{-4}b^{-6} \cdot a^{-15}b^{-12}$$

$$= \boxed{\frac{1}{a^{19}b^{18}}}$$

10. $(2r^4)^{-5}$

$$\frac{1}{32}r^{-20}$$

$$= \boxed{\frac{1}{32r^{20}}}$$

11. $(-11x^2y)^{-2}$

$$\frac{1}{121}x^{-4}y^{-2}$$

$$= \boxed{\frac{1}{121x^4y^2}}$$

12. $(x^3y^6)^{-2} + (x^2y^4)^{-3}$

$$x^{-6}y^{-12} + x^{-6}y^{-12}$$

$$= \boxed{\frac{2}{x^6y^{12}}}$$

13. $\frac{2}{3}ab^2c^{-4}$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{b^2c^4}}$$

14. $\frac{2}{3}x^2y^4$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{x^2y^4}}$$

15. $\frac{2}{3}x^2y^4$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{x^2y^4}}$$

16. $\frac{2}{3}ab^2c^{-4}$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{b^2c^4}}$$

17. $\frac{2}{3}x^2y^4$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{x^2y^4}}$$

18. $\frac{2}{3}x^2y^4$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{x^2y^4}}$$

19. $\frac{2}{3}ab^2c^{-4}$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{b^2c^4}}$$

20. $\frac{2}{3}x^2y^4$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{x^2y^4}}$$

21. $\frac{2}{3}x^2y^4$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{x^2y^4}}$$

Answer Key To Unit 6 Exponents Exponential Functions

Mary Jane Sterling



Answer Key To Unit 6 Exponents Exponential Functions:

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Barron's Educational Series, Lawrence S. Leff, 2024-08-06 This is an intensive preparation for the SAT math sections It includes an overview of the digital SAT including a breakdown of the sections and how to prepare for exam day Algebra II All-in-One For Dummies Mary Jane Sterling, 2022-08-30 Every intermediate algebra lesson example and practice problem you need in a single easy to use reference Algebra II can be a tough nut to crack when you first meet it But with the right tools well she s still tough but she gets a heckuva lot easier to manage In Algebra II All in One For Dummies you ll find your very own step by step roadmap to solving even the most challenging Algebra II problems from conics and systems of equations to exponential and logarithmic functions In the book you ll discover the ins and outs of function transformation and evaluation work out your brain with complex and imaginary numbers and apply formulas from statistics and probability theory You ll also find Accessible and practical lessons and practice for second year high school or university algebra students End of chapter quizzes that help you learn and remember key algebraic concepts such as quadratic equations graphing techniques and matrices One year access to additional chapter quizzes online where you can track your progress and get real time feedback Your own personal mathematical toolbox for some of the most useful and foundational math you ll learn in school this Algebra II All in One For Dummies combines hands on techniques methods and strategies from a variety of sources into one can t miss reference You ll get the insights formulas and practice you need all in a single book with additional quizzes online that s ideal for students and lifelong learners alike *Differentiating Instruction in Algebra 1* Kelli Jurek, 2021-09-03 Teachers often have too little time to prepare differentiated lessons to meet the needs of all students Differentiating Instruction in Algebra 1 provides ready to use resources for Algebra 1 students The book is divided into four units introduction to functions and relationships systems of linear equations exponent rules and exponential functions and quadratic functions Each unit includes big ideas essential questions the Common Core State Standards addressed within that section pretests learning targets varied activities and answer keys The activities offer choices to students or three levels of practice based on student skill level Differentiating Instruction in Algebra 1 is just the resource math teachers need to provide exciting and challenging algebra activities for all students Grades 7 10 Eureka Math Grade 6 Study Guide Great Minds, 2016-04-04 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of

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Programmed College Algebra Robert D. Hackworth, Joseph W. Howland, 1991-09

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Table of Contents Answer Key To Unit 6 Exponents Exponential Functions

1. Understanding the eBook Answer Key To Unit 6 Exponents Exponential Functions
 - The Rise of Digital Reading Answer Key To Unit 6 Exponents Exponential Functions
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To Unit 6 Exponents Exponential Functions
 - 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 Answer Key To Unit 6 Exponents Exponential Functions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To Unit 6 Exponents Exponential Functions
 - Personalized Recommendations
 - Answer Key To Unit 6 Exponents Exponential Functions User Reviews and Ratings

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