

Algebra 1 Laws of Exponents/Polynomials Test STUDY GUIDE

Know how to...

- Evaluate expressions with exponents using the laws of exponents:
 - $a^m \cdot a^n = a^{m+n}$: Add exponents when multiplying powers with the same base.
Example: $x^3 \cdot x^4 = x^7$
 - $\frac{a^m}{a^n} = a^{m-n}$: Subtract exponents when dividing powers with the same base.
Example: $\frac{x^8}{x^2} = x^6$
 - $(ab)^m = a^m b^m$: Multiply exponents when raising a power to a power.
Example: $(x^2)^3 = x^{12}$
- Evaluate an expression with a number raised to a 0 power... it is 1.
◦ Example: $x^0 = 1$
- Evaluate expressions with negative exponents: $a^{-n} = \frac{1}{a^n}$ or $a^n = \frac{1}{a^{-n}}$, $a \neq 0$
◦ Examples: $2^{-2} = \frac{1}{2^2}$; $x^5 = \frac{1}{x^{-5}}$; $x^2y^{-3}z^4 = \frac{x^2z^4}{y^3}$
- Evaluate expressions using scientific notation: $c \times 10^n$, where $1 \leq c < 10$ and n is an integer
◦ Examples: $1,200 = 1.2 \times 10^3$; $0.0034 = 3.4 \times 10^{-3}$
- Multiply/divide numbers in scientific notation by using the laws of exponents; you may need to put the number back into scientific notation!
◦ Multiply or divide coefficients; multiply or divide exponents
◦ Examples: $(4.1 \times 10^4)(2.3 \times 10^{-2}) = 9.43 \times 10^2$; $\frac{5.0 \times 10^8}{2.5 \times 10^3} = 2.0 \times 10^5$
- Add and Subtract Polynomials
 - A monomial is a number, variable, or product of a number and one or more variables with a whole number coefficient. Since variables in a denominator represent negative coefficients in the numerator, monomials do not have variables in the denominator.
 - Example: $2x^2$, $14x^2y^5$ are monomials; $\frac{4}{x}$, \sqrt{x} are not
 - The degree of a monomial is the sum of the exponents of the variables in the monomial.
 - Example: the degree of $4x^2y$ is 3
 - The degree of a constant (such as 5) is 0
 - A polynomial is a monomial or the sum of monomials.
 - By convention, we write the terms of a polynomial in degree order, from greatest to least (standard form).
 - The degree of a polynomial is the greatest degree of its terms, that is, it takes the degree of the monomial with the largest degree in the polynomial.

Study Guide Polynomials And Exponents

Charles David Miller

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Math 3 Common Core 11th Grade (Speedy Study Guides) Speedy Publishing, 2015-05-25 Math for 11th grade is a bit more complicated so constant practice is highly encouraged. You will be dealing with a lot of invisible numbers taunting your rationality. But if you are constantly exposed to concepts and are given enough opportunities to challenge your learning then you should be able to ace your tests. This study guide is your go to prior to exams. Buy a copy now [Study Guide \[for\]](#)

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Table of Contents Study Guide Polynomials And Exponents

1. Understanding the eBook Study Guide Polynomials And Exponents
 - The Rise of Digital Reading Study Guide Polynomials And Exponents
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Polynomials And Exponents
 - 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 Study Guide Polynomials And Exponents
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Polynomials And Exponents
 - Personalized Recommendations
 - Study Guide Polynomials And Exponents User Reviews and Ratings
 - Study Guide Polynomials And Exponents and Bestseller Lists
5. Accessing Study Guide Polynomials And Exponents Free and Paid eBooks
 - Study Guide Polynomials And Exponents Public Domain eBooks
 - Study Guide Polynomials And Exponents eBook Subscription Services
 - Study Guide Polynomials And Exponents Budget-Friendly Options

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