

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

Peter A. Krauss

Study Guide Polynomials And Exponents:

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