Study Guide and Intervention Multiplication Properties of Exponents

Multiply Monomials A monomial is a number, a variable, or the product of a number and one or more variables with nonnegative integer exponents. An expression of the form χ^* is called a **power** and represents the product you obtain when x is used as a factor n times. To multiply two powers that have the same base, add the exponents.

Product of Powers

For any number a and all integers m and n. $a^m \cdot a^n = a^{m+n}$

Example 1: Simplify (3 χ^{6})(5 χ^{2}). $(3 \quad \chi^6 \quad)(5 \quad \chi^2 \quad) = (3)(5)(\quad \chi^6 \quad \cdot \quad \chi^2 \quad)$ the coefficients

= $(3 \cdot 5)(x^{6-2})$ Product of Powers $= 15 - x^8$ Simplify.

The product is 15 χ^0 .

Example 2: Simplify $(-4 a^3 b)(3 a^2 b^5)$.

 $(-4 \quad a^3 \quad b)(3 \quad a^2 b^5) = (-4)(3)(\quad a^3 \quad \cdot \quad a^2)(b \cdot b^5)$

$$=-12(a^{3+2} \times b^{1+5})$$

 $=-12 a^{5}b^{6}$

The product is -12 of be

Exercises

Simplify each expression.

Giroup

3.
$$(x^2 y)(4x y^3)$$

4.
$$\frac{1}{3}$$
 (2 a^3 b)(6 b^3)

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