

LAWS OF EXPONENTS - QUICK REFERENCE GUIDE

Product of Powers

$$x^m \cdot x^n = x^{m+n}$$

When multiplying exponents with the same base, keep the base and **add** the powers.

Power of a Product

$$(x \cdot y)^m = x^m y^m$$

When an exponent is outside the parentheses, **each** component inside is raised to the specific power.

Power of a Power

$$(x^m)^n = x^{m \cdot n}$$

When an exponent is raised to a power, keep the base and **multiply** exponents.
 *Keep numbers to the specific power as well.

Quotients of Powers

$$\frac{x^m}{x^n} = x^{m-n}$$

When dividing exponents with the same base, keep the base and **subtract** the powers.

Zero Exponents

$$(x)^0 = 1$$

A non-zero number raised to the zero power always = 1

Quotient to a Power

$$\left(\frac{x}{y}\right)^m = \frac{x^m}{y^m}$$

When an exponent is outside parentheses of a fraction, raise both the numerator and denominator to the power.

Negative Exponents

$$x^{-m} = \frac{1}{x^m} \quad \text{Negative numerator moves to denominator}$$

$$\frac{1}{x^{-m}} = x^m \quad \text{Negative denominator moves to numerator}$$

Laws Of Exponents Guide

Yan Bai

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