

Laws of Exponents

Product of Powers Rule

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

Quotient of Powers Rule

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

Power of Power Rule

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

Power of Product Rule

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

Power of Quotient Rule

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

Zero Power Rule

$$x^0 = 1$$

Negative Exponent Rule

$$x^{-n} = (1/x)^n$$

Algebra 1 Extending The Laws Of Exponents

**Barron's Educational Series, Lawrence
S. Leff, Christina Pawlowski-Polanish**

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