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Property	Definition	Example
Product of Powers	$a^m * a^n = a^{m+n}$	$\chi^7 * \chi^3 = \chi'^\circ$
Power of a Power	$(a^m)^n = a^{m*n}$	$(\chi^7)^3 = \chi^{21}$
Power of a Product	$(ab)^m = a^m b^m$	$(xy)^7 = x^7y^7$
Quotient of Powers	$\frac{a^m}{a^n} = a^{m-n}$	$\frac{\chi^7}{\chi^3} = \chi^4$
Power of a Quotient	$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$	$\left(\frac{x}{y}\right) = \frac{x^7}{y^7}$
Zero Exponent	$a^0 = 1$	χ = 1
Negative Exponent		
Rational Exponent		