

Mr. B's Algebra Connections



Exponent
Expert
Fall 2005



Product Rule for Exponents: $a^m * a^n = a^{m+n}$

Power Rule for Exponents: $(a^m)^n = a^{m*n}$

Power of a Product: $(ab)^n = a^n b^n$

Power of a Quotient: $(a/c)^n = (a^n/c^n)$

Quotient Rule for Exponents: $(a^m/a^n) = a^{m-n}$

Zero Exponent: $a^0 = 1$

Negative Exponent: $a^{-n} = 1/a^n, a \neq 0$