April 6, 2011 # Review of Exponent Rules

Multiplying Numbers with the Same Base (add the exponents)

$2^2 2^5 =$ $n^4 n^4 =$ $(-2)^2(-2)^{-5} =$

$3^0 3^8 =$ $x^3 x^2 =$ $2^2 2^{-2} =$

Dividing Numbers with the Same Base (subtract the exponents)

$\frac{2^2}{2^5} =$ $\frac{(-2)^2}{(-2)^2} =$ $\frac{x^2}{x^5} =$

$\frac{3^2}{3^{-2}} =$ $\frac{2^{-2}}{2^{-5}} =$ $\frac{n^2}{n^0} =$

Exponents of Exponents (multiply the exponents)

$(2^2)^5 =$ $((-4)^2)^5 =$ $(s^2)^3 =$

$(x^2)^{-5} =$ $(2^0)^5 =$ $(x^{-3})^{-4} =$

Combinations of Exponent Laws

$\frac{2^2 2^3}{2^5 2^4} =$ $\frac{(3^2)^3}{3^5 3^4} =$ $\frac{(n^2)^{-3}}{(n^5)^{-4}} =$