Aproximação cálculos de aproximação

$2{,}73 \times 10^{-3}$

$\frac{4}{3}\pi \approx 4$

$4(27 \times 10^{-9}) = 100 \times 10^{-9} = 1 \times 10^{-7}$

valor exato $= 0{,}85 \times 10^{-7}$

11/setembro 07:47

A-2 Powers and Roots: Exponents

$y = x^n$ → x raised to the nth power

x^2 → squared x^3 → cubed

$N^1 = N$ $N^0 = 1$

- Multiplication: $(x^a)(x^b) = x^{a+b}$ * same base

Ex.: $(2)^3(2)^4 = 2^7$

Also: $x^N y^N = (xy)^N$

Ex.: $(2)^3(3)^3 = (6)^3$

The expression $(x^{a/b})$ means (x^a) raised to the bth power: $(x^{a/b}) = x^{a/b}$

Ex.: $(3^2)^3 = 3^6$

- Division: $\frac{x^a}{x^b} = x^{a-b}$ * same base

Ex: $\frac{2^5}{2^3} = 2^2 = \frac{32}{8} = 4$

Also: $\frac{y^N}{x^N} = \left(\frac{y}{x}\right)^N$ Ex.: $\frac{6^3}{2^3} = \left(\frac{6}{2}\right)^3$