Logarithmic

Another perspective on exponents & indices.

$$2^5 = 2 * 2 * 2 * 2 * 2 = 32$$

What does this really mean?

- Rate
- Time
- Result

Why is this 1?

$$2^0 = 1$$

Raising by -1 results in a fraction.

$$2^{-1} = \frac{1}{2}$$

"Log base 2 of 32 equals 5"

$$\log_2 32 = 5$$

Logarithmic's are the inverses of exponents.

- Base: how much change occurred?
- Exponent:

2. Evaluate the logarithmic expression

$$\log_{27}\left(\frac{1}{3}\right)$$

$$\log_3(27) = x$$

$$\log_3(27) = x$$

$$\log_{27}(1/3) = x$$

$$F = G\left(\frac{m_1 m_2}{r^2}\right)$$

$$\left[\frac{N}{\left(\frac{L}{p}\right)-(m+n)}\right]$$