

Logarithmic properties

1. $\log_a m^n = n * \log_a m$

2. $\log_a a = 1$

3. $\log_n m = \frac{1}{\log_m n}$

4. $\log_a(mn) = \log_a m + \log_a n$

5. $\log_a \left(\frac{m}{n}\right) = \log_a m - \log_a n$

6. $\log_b m = \frac{\log_a m}{\log_a b}$