



Untangled math for everyone

$$\log_b(a) = c \quad \longleftrightarrow \quad b^c = a$$

$a > 0$
 $b > 0, b \neq 1$

$$\checkmark \log_b(b) = 1$$

$$\checkmark \log_b(1) = 0$$

$$\checkmark b^{\log_b(a)} = a$$

$$\checkmark \log_b(a_1 \cdot a_2) = \log_b(a_1) + \log_b(a_2)$$

$$\checkmark \log_b\left(\frac{a_1}{a_2}\right) = \log_b(a_1) - \log_b(a_2)$$

$$\checkmark \log_b(a^p) = p \log_b(a)$$

$$\checkmark \log_{b_2}(a) = \frac{\log_{b_1}(a)}{\log_{b_1}(b_2)}$$

$$\checkmark \log_b(a) = \frac{1}{\log_a(b)}$$

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