

Log Rules Chart

The following rules apply provided that...

$b \neq 1$ and $b > 0$, and M , N , and x are real numbers where $M > 0$ and $N > 0$

Rule	Property
Product Rule	$\log_b(MN) = \log_b M + \log_b N$
Quotient Rule	$\log_b\left(\frac{M}{N}\right) = \log_b M - \log_b N$
Power Rule	$\log_b(M^x) = x \cdot \log_b M$
Zero Rule	$\log_b(1) = 0$
Identity Rule	$\log_b(b) = 1$
Inverse Property of Logs	$\log_b(b^x) = x$
Inverse Property of Exponents	$b^{\log_b(x)} = x$
The Change of Base Formula	$\log_b a = \frac{\log_c a}{\log_c b}$

How To Use A Log

Geoffrey R. Norman, David L. Streiner



How To Use A Log :

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some thermodynamic problems require an absolute value of entropy the third law of thermodynamics defines the entropy of a pure substance at absolute zero to be zero the principles of thermodynamics are nearly fully defined after defining the laws of thermodynamics internal energy and entropy