

logarithm cheat sheet

Properties of Exponents and Logarithms

Exponents

Let a and b be real numbers and m and n be integers. Then the following properties of exponents hold, provided that all of the expressions appearing in a particular equation are defined.

1. $a^m a^n = a^{m+n}$
2. $(a^m)^n = a^{mn}$
3. $(ab)^m = a^m b^m$
4. $\frac{a^m}{a^n} = a^{m-n}$, $a \neq 0$
5. $\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$, $b \neq 0$
6. $a^{-m} = \frac{1}{a^m}$, $a \neq 0$
7. $a^{\frac{1}{n}} = \sqrt[n]{a}$
8. $a^0 = 1$, $a \neq 0$
9. $a^{\frac{m}{n}} = \sqrt[n]{a^m} = (\sqrt[n]{a})^m$

where m and n are integers in properties 7 and 9.

Logarithms

Definition: $y = \log_a x$ if and only if $x = a^y$, where $a > 0$.

In other words, logarithms are exponents.

Remarks:

- $\log x$ always refers to log base 10, i.e., $\log x = \log_{10} x$.
- $\ln x$ is called the natural logarithm and is used to represent $\log_e x$, where the irrational number $e \approx 2.71828$. Therefore, $\ln x = y$ if and only if $e^y = x$.
- Most calculators can directly compute logs base 10 and the natural log. For any other base it is necessary to use the change of base formula: $\log_b a = \frac{\ln a}{\ln b}$ or $\frac{\log_{10} a}{\log_{10} b}$.

Properties of Logarithms (Recall that logs are only defined for positive values of x .)

- | For the natural logarithm | For logarithms base a |
|--------------------------------------|-----------------------------------------------|
| 1. $\ln xy = \ln x + \ln y$ | 1. $\log_a xy = \log_a x + \log_a y$ |
| 2. $\ln \frac{x}{y} = \ln x - \ln y$ | 2. $\log_a \frac{x}{y} = \log_a x - \log_a y$ |
| 3. $\ln x^y = y \cdot \ln x$ | 3. $\log_a x^y = y \cdot \log_a x$ |
| 4. $\ln e^x = x$ | 4. $\log_a a^x = x$ |
| 5. $e^{\ln x} = x$ | 5. $a^{\log_a x} = x$ |

Useful Identities for Logarithms

- | For the natural logarithm | For logarithms base a |
|---------------------------|-------------------------------------|
| 1. $\ln e = 1$ | 1. $\log_a a = 1$, for all $a > 0$ |
| 2. $\ln 1 = 0$ | 2. $\log_a 1 = 0$, for all $a > 0$ |

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G Thomas



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