

Ln X Graph

Natural logarithm (redirect from Ln(x))

$\int \frac{dx}{x} = \ln|x| + C$ $\left\{ \frac{d}{dx} \ln|x| = \frac{1}{x} \right\}$ then: $\int \frac{1}{x} dx = \ln|x| + C$

Ladder graph

mathematical field of graph theory, the ladder graph L_n is a planar, undirected graph with $2n$ vertices and $3n - 2$ edges. The ladder graph can be obtained as...

Exponential function (redirect from E^x)

\log converts products to sums: $\ln(xy) = \ln x + \ln y$. The exponential function is occasionally...

Stirling's approximation

$\ln(n!) \approx n \ln n - n + 1$, $\int_1^n \ln x \, dx = n \ln n - n + 1$

Conductance (graph theory)

In theoretical computer science, graph theory, and mathematics, the conductance is a parameter of a Markov chain that is closely tied to its mixing time...

Random geometric graph

In graph theory, a random geometric graph (RGG) is the mathematically simplest spatial network, namely an undirected graph constructed by randomly placing...

Erdős–Rényi model (redirect from Erdos–Renyi random graph)

For example, the statement that almost every graph in $G(n, 2 \ln(n)/n)$ is connected means that, as $n \rightarrow \infty$...

Directed acyclic graph

In mathematics, particularly graph theory, and computer science, a directed acyclic graph (DAG) is a directed graph with no directed cycles. That is, it...

Exponential family random graph models

$P(Y) = \frac{1}{Z} \exp(\theta_1 Y_1 + \theta_2 Y_2)$, so that the probability of every graph $y \in \mathcal{Y}$...

Logit

function $\sigma(x) = 1 / (1 + e^{-x})$, so the logit is defined as $\text{logit } p = \ln \frac{p}{1-p}$ for...

Beta distribution

$X) = e^{-\text{var}[\ln(1-X)]} \ln \text{cov} G X, 1-X = E[(\ln X \ln G X)(\ln(1-X) \ln G(1-X))] = E[(\ln X \ln G X) - \ln \dots$

Log–log plot (redirect from Loglog graph)

$0 < x < 1$ constant $x dx = F(0, x) - F(x, 1) = F(0, x) - \int_x^1 A(m=1) = F(0, x) - \ln x$

Derivative (redirect from F'(x))

$d(x^2) dx \cos(x^2) = d(\ln x) dx e^x \ln(x) d(e^x) dx + 0 = 4x^3 + 2x \cos(x^2) = 1 x e^x \ln(x) e^x$

Asymptote

asymptote of $f(x)$ when x tends to $+\infty$. The function $f(x) = \ln x$ has $m = \lim_{x \rightarrow +\infty} f(x)/x = \lim_{x \rightarrow +\infty} \ln x/x = 0$

Logarithm (redirect from Log(x))

$\log_b x = \frac{1}{x \ln b}$. That is, the slope of the tangent touching the graph of the base- b ...

Hyperbolic functions (redirect from Sinh(x))

$(x+1/x) |x| > 1$ $\text{arsech}(x) = \ln(1+x) - \ln(1-x) = \ln \frac{1+x}{1-x}$ $\text{arcsch}(x) = \ln(1+x^2) - \ln(1-x^2) = \ln \frac{1+x^2}{1-x^2}$

Taylor series

Maclaurin series $\ln(1+x) = x - \frac{x^2}{2} + \frac{x^3}{3} - \frac{x^4}{4} + \dots$, $\ln(1-x) = -x - \frac{x^2}{2} - \frac{x^3}{3} - \frac{x^4}{4} - \dots$

Birthday problem

$\ln 2 + 3 \ln 2 + 9 \ln 2 + 27 \ln 2 = 30 \ln 2$ $n(d) = \lceil \sqrt{2d \ln 2} \rceil + \frac{3-2 \ln 2}{6} + \frac{9-4(\ln 2)^2}{72 \sqrt{2 \ln 2}}$

Closeness centrality (category Graph invariants)

$\frac{1}{C(x)} \approx \frac{-1}{\ln(z-1) \ln(k_x) + \beta}$ where k_x is the degree of x

Equation $xy = yx$ (redirect from $X^y = y^x$)

$$\ln x \cdot \exp(y \ln x) = \ln x \cdot x^y \quad (\text{multiply by } \ln x) \quad \{\displaystyle$$

$$\begin{aligned} y^x &= x^y = \exp(\ln x^y) = \exp(y \ln x) \end{aligned}$$

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