

Ln X Graph

Natural logarithm (redirect from Ln(x))

$\{dx\}\{x\}\}$ $dv = dx \rightarrow v = x$ then: $\int \ln x \, dx = x \ln x - x + C$

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...

Conductance (graph theory)

state $x \in \Omega$, $\frac{1}{4} \sum_{x \in \Omega} (\ln(x) + \ln(1/x)) \leq \tau_x(\delta)$

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...

Stirling's approximation

$\ln(n!) - \frac{1}{2} \ln n \approx \int_1^n \ln x \, dx = n \ln n - n + 1$

Logit

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

Logarithm (redirect from Log(x))

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

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...

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 $n \rightarrow \infty$

Asymptote

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

Log–log plot (redirect from Loglog graph)

$\int_0^1 \cos(x) dx = \sin(x) \Big|_0^1 = \sin(1) - \sin(0) = \sin(1)$

Derivative (redirect from F'(x))

$\frac{d}{dx} \cos(x) = -\sin(x)$
 $\frac{d}{dx} \ln(x) = \frac{1}{x}$
 $\frac{d}{dx} e^x = e^x$
 $\frac{d}{dx} x^3 = 3x^2$

Exponential family random graph models

$\theta = (\theta_1, \theta_2)$, so that the probability of every graph $y \in \mathcal{Y}$

Beta distribution

$X) = \frac{1}{B(\alpha, \beta)} x^{\alpha-1} (1-x)^{\beta-1}$
 $E[X] = \frac{\alpha}{\alpha + \beta}$
 $E[X^2] = \frac{\alpha(\alpha+1)}{(\alpha+\beta)(\alpha+\beta+1)}$

Inverse trigonometric functions (redirect from Arcsin(x))

For real $x \in [-1, 1]$: $\arcsin(x) = \arcsin(x)$
 $\arccos(x) = \arccos(x)$
 $\arctan(x) = \arctan(x)$

Hyperbolic functions (redirect from Sinh(x))

$\operatorname{arcsch}(x) = \ln\left(\frac{1}{x} + \sqrt{\frac{1}{x^2} + 1}\right)$
 $\operatorname{arsech}(x) = \ln\left(\frac{1+x}{1-x}\right)$

Tetration

$\operatorname{ssrt}(x) = \exp(W(\ln x))$
 $\operatorname{ssrt}(x) = \exp(W(\ln x))$

Set cover problem

than $O(\ln \Delta)$ unless $P = NP$, thus making the approximation of $\ln \Delta$

Logarithmic scale (redirect from Logarithmic graph paper)

1000. The top right graph uses a log-10 scale for just the X-axis, and the bottom right graph uses a log-10 scale for both the X axis and the Y-axis....

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