

Ln X Graph

Natural logarithm (redirect from Ln(x))

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

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)

$\log$ $\int$, converts products to sums: $\ln(x \cdot y) = \ln x + \ln y$ $\{\displaystyle \ln(x \cdot y) = \ln x + \ln y\}$. The exponential function is occasionally...

Stirling's approximation

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

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...

Logit

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

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

$T = (\theta_1, \theta_2)^T$ $\{\displaystyle \theta = (\theta_1, \theta_2)^T = (-\ln 2, \ln 3)^T\}$, so that the probability of every graph $y \in Y$ $\{\displaystyle \dots\}$

Derivative (redirect from $F'(x)$)

$d(x^2)/dx = 2x$ $\{\displaystyle d(\ln x)/dx = 1/x\}$ $\ln(x) = \int 1/x \, dx$ $\{\displaystyle \ln(x) = \int 1/x \, dx\}$

Asymptote

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

Conductance (graph theory)

state $x \in \Omega$, $\frac{1}{4\Phi} \leq \tau_x(\delta)$

Beta distribution

$X) = e^{\text{var}[\ln(1-X)]} \ln \text{cov}(X, 1-X) = E[(\ln X \ln GX)(\ln(1-X) \ln G1X)] = E[(\ln X E[\ln$

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))

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

Digamma function

for $x > 0$, $\ln(x+1/2) - 1/x < \psi(x) < \ln(x+e^{-x}) - 1/x$, $\ln(x+\frac{1}{2}) - \frac{1}{x} < \psi(x) < \ln(x+e^{-\gamma}) - \frac{1}{x}$

Log–log plot (redirect from Loglog graph)

$\int_0^1 \text{constant} x dx = F(0,1) - F(0,0) = F(1) - F(0) = \ln 1 - \ln 0 = \infty$

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 $n \rightarrow \infty$

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

$\ln x \exp(y \ln x) = \ln x (x^y)$ (multiply by $\ln x$)
 $y^x \& \amp; x^y = \exp(y \ln x) \& \amp; y^x = \exp(x \ln y)$

Taylor series

Maclaurin series $\ln(1+x) = \sum_{n=1}^{\infty} \frac{(-1)^{n+1} x^n}{n}$, $\ln(1+x) = \sum_{n=1}^{\infty} \frac{(-1)^{n+1} x^n}{n}$

Set cover problem

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

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