Ln X Graph

Natural logarithm (redirect from Ln(x))

{dx}{x}}} d v = d x ? v = x {\displaystyle dv=dx\Rightarrow v=x} then: ? ln ? x d x = x ln ? x ? ? x x d x = x ln ? x ? ? 1 d x = x ln ? x ? x + C {\displaystyle...

Ladder graph

mathematical field of graph theory, the ladder graph Ln 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 ? (x ? y) = ln ? x + ln ? y {\displaystyle \ln(x\cdot y)=\ln x+\ln y} ?. The exponential function is occasionally...

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

) ? 1 2 ln ? n ? ? 1 n ln ? x d x = n ln ? n ? n + 1 , {\displaystyle \ln(n!)-{\tfrac {1}{2}}\ln n\approx \int _{1}^{n}\ln x\,{\rm {d}}x=n\ln n-n+1,}...

Logit

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

Exponential family random graph models

T = (? ln ? 2 , ln ? 3) T {\displaystyle \theta =(\theta _{1},\theta _{2})^{T}=(-\ln 2,\ln 3)^{T}} , so that the probability of every graph y ? Y {\displaystyle...

Asymptote

asymptote of $f(x)$ when x tends to +?. The function $f(x) = \ln x$ has m = lim x ? + ? f (x) / x = lim x ? + ? ln ? x x = 0 {\displaystyle m=\lim _{x\rightarrow...

Conductance (graph theory)

state x ? ? {\displaystyle x\in \Omega } , 1 4 ? ? ? x (?) ? 2 ? 2 (ln ? ? (x) ? 1 + ln ? ? ? 1) {\displaystyle {\frac {1}{4\Phi }}\leq \tau _{x}(\delta...

Derivative (redirect from F'(x))

d (x 2) d x cos ? (x 2) ? d (ln ? x) d x e x ? ln ? (x) d (e x) d x + 0 = 4 x 3 + 2 x cos ? (x 2) ? 1 x e x ? ln ? (x) e x . {\displaystyle...

Logarithm (redirect from Log(x))

log b ? x = 1 x ln ? b . {\displaystyle {\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...

Erd?s–Rényi model (redirect from Erdos–Renyi random graph)

For example, the statement that almost every graph in G (n , 2 ln ? (n) / n) {\displaystyle G(n,2\ln(n)/n)} is connected means that, as n {\displaystyle...

Beta distribution

X) = e var ? [ln ? (1 ? X)] ln ? c o v G X , 1 - X = E ? [(ln ? X ? ln ? G X) (ln ? (1 ? X) ? ln ? G 1 ? X)] = E ? [(ln ? X ? E ? [ln...

Hyperbolic functions (redirect from Sinh(x))

(x + 1 x ? 1) | x | > 1 arsech ? (x) = ln ? (1 x + 1 x 2 ? 1) = ln ? (1 + 1 ? x 2 x) 0 < x ? 1 arcsch ? (x) = ln ? (1 x + 1 x 2 + 1) x ? 0...

Log–log plot (redirect from Loglog graph)

0 x 1 c o n s t a n t x d x = F 0 x 0 ? 1 ? x 0 x 1 d x x = F 0 ? x 0 ? ln ? x | x 0 x 1 A (m = ? 1) = F 0 ? x 0 ? ln ? x 1 x 0 {\displaystyle...

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

ln ? x x exp ? (? y ln ? x x) = ? ln ? x x (multiply by ? ln ? x x) {\displaystyle {\begin{aligned}y^{x}&=x^{y}=\exp \left(y\ln x\right)&\\y^{x}\exp...

Taylor series

Maclaurin series ln ? (1 ? x) = ? ? n = 1 ? x n n = ? x ? x 2 2 ? x 3 3 ? ? , ln ? (1 + x) = ? n = 1 ? (? 1) n + 1 x n n = x ? x 2 2 + x 3 3 ? ? . {\displaystyle...

Inverse trigonometric functions (redirect from Arcsin(x))

For real x ? 1: ? arcsec ? (x) d x = x arcsec ? (x) ? ln ? (x + x 2 ? 1) + C ? arccsc ? (x) d x = x arccsc ? (x) + ln ? (x + x 2 ? 1) + C...

Set cover problem

than ln ? ? ? O (ln ? ln ? ?) {\displaystyle \ln \Delta -O(\ln \ln \Delta)} unless P = {\displaystyle =} NP, thus making the approximation of ln ? ?...

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