

Stuffed Sheets.com – Index of Math Symbols – Calculus

For most of the entries, the links go to the first sheet on which the symbol is actually used.

x Approaches a	Function Values Approach c	Limit as x Approaches a	Limit as x Approaches a from the Right	Limit as x Approaches a from the Left	Plus or Minus Infinity	Difference Quotient	Derivative of f with Respect to x
$x \rightarrow a$	$f(x) \rightarrow c$	$\lim_{x \rightarrow a}$	$\lim_{x \rightarrow a^+}$	$\lim_{x \rightarrow a^-}$	$\pm\infty$	$\frac{\Delta f}{\Delta x}$ or $\frac{f(x+\Delta x)-f(x)}{\Delta x}$ or $\frac{f(x+h)-f(x)}{h}$	$\frac{df}{dx}$ or $f'(x)$
Derivative of f Evaluated at c	Second Derivative of f with Respect to x	nth Derivative of f with Respect to x	First Derivative of x with Respect to Time	Second Derivative of x with Respect to Time	Derivative of the Sine of a Function	Derivative of the Cosine of a Function	Derivative of the Tangent of a Function
$\left. \frac{df}{dx} \right _c$ or $f'(c)$	$\frac{d^2 f}{dx^2}$ or $f''(x)$	$\frac{d^n f}{dx^n}$	\dot{x}	\ddot{x}	$\frac{d\{\sin[u(x)]\}}{dx}$	$\frac{d\{\cos[u(x)]\}}{dx}$	$\frac{d\{\tan[u(x)]\}}{dx}$
Derivative of the Cosecant of a Function	Derivative of the Secant of a Function	Derivative of the Cotangent of a Function	Derivative of the Inverse Sine of a Function	Derivative of the Inverse Cosine of a Function	Derivative of the Inverse Tangent of a Function	Derivative of the Inverse Cosecant of a Function	Derivative of the Inverse Secant of a Function
$\frac{d\{\operatorname{cosec}[u(x)]\}}{dx}$	$\frac{d\{\sec[u(x)]\}}{dx}$	$\frac{d\{\cot[u(x)]\}}{dx}$	$\frac{d\{\sin^{-1}[u(x)]\}}{dx}$	$\frac{d\{\cos^{-1}[u(x)]\}}{dx}$	$\frac{d\{\tan^{-1}[u(x)]\}}{dx}$	$\frac{d\{\operatorname{cosec}^{-1}[u(x)]\}}{dx}$	$\frac{d\{\sec^{-1}[u(x)]\}}{dx}$
Derivative of the Inverse Cotangent of a Function	Derivative of a Number Raised to a Function	Derivative of e Raised to a Function	Derivative of a Function Raised to a Function	Derivative of the Natural Logarithm of a Function	Derivative of a Logarithm to an Arbitrary Base of a Function	Differential	The Natural Logarithm Function
$\frac{d\{\cot^{-1}[u(x)]\}}{dx}$	$\frac{d}{dx}[k^{u(x)}]$	$\frac{d}{dx}[e^{u(x)}]$	$\frac{d}{dx}[u(x)^{v(x)}]$	$\frac{d\{\ln[u(x)]\}}{dx}$	$\frac{d\{\log_b[u(x)]\}}{dx}$	dx	$\ln(x)$
The Exponential Function	Indeterminate Form	Hyperbolic Sine Function	Hyperbolic Cosine Function	Hyperbolic Tangent Function	Hyperbolic Secant Function	Hyperbolic Cosecant Function	Hyperbolic Cotangent Function
e^x or $\exp(x)$	$\frac{0}{0}$ or $\frac{\infty}{\infty}$	$\sinh(x)$	$\cosh(x)$	$\tanh(x)$	$\operatorname{sech}(x)$	$\operatorname{cosech}(x)$	$\operatorname{coth}(x)$
Derivative of the Hyperbolic Sine of a Function	Derivative of the Hyperbolic Cosine of a Function	Derivative of the Hyperbolic Tangent of a Function	Derivative of the Hyperbolic Cosecant of a Function	Derivative of the Hyperbolic Secant of a Function	Derivative of the Hyperbolic Cotangent of a Function	Riemann Sum	Limit of Riemann Sums

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$\frac{d\{\sinh[u(x)]\}}{dx}$	$\frac{d\{\cosh[u(x)]\}}{dx}$	$\frac{d\{\tanh[u(x)]\}}{dx}$	$\frac{d\{\operatorname{cosech}[u(x)]\}}{dx}$	$\frac{d\{\operatorname{sech}[u(x)]\}}{dx}$	$\frac{d\{\operatorname{coth}[u(x)]\}}{dx}$	$\sum_{i=1}^n f(x_i^*)\Delta x_i$	$\lim_{\Delta x_i \rightarrow 0} \sum_{i=1}^n f(x_i^*)\Delta x_i$
Integral Symbol	Indefinite Integral	Definite Integral	Derivative of an Integral	Derivative of an Exponential Function Raised to a Function	Integral of the Sine of a Function	Integral of the Cosine of a Function	Integral of the Hyperbolic Sine of a Function
\int	$\int f(x)dx$	$\int_a^b f(x)dx$	$\frac{d}{dx} \int_a^x f(x)dx$	$\int e^{u(x)} \cdot \frac{du(x)}{dx} dx$	$\int \sin(u) du$	$\int \cos(u) du$	$\int \sinh(u) du$
Integral of the Hyperbolic Cosine of a Function	Integral of Tangent x	Integral of Cosecant x	Integral of Secant x	Integral of Cotangent x	Integral of Natural Logarithm of x	Improper Integral	Infinite Sequence
$\int \cosh(u) du$	$\int \tan(x) dx$	$\int \operatorname{cosec}(x) dx$	$\int \sec(x) dx$	$\int \cot(x) dx$	$\int \ln(x) dx$	$\int_{-\infty}^{\infty} f(x) dx$	$\{a_n\}_{n=0}^{\infty}$
Limit of a Sequence	Strictly Increasing Sequence	Strictly Decreasing Sequence	Infinite Series	Sequence of Partial Sums	Alternating Infinite Series	Absolute Infinite Series	p-Series
$\lim_{n \rightarrow \infty} a_n$	$a_{n+1} > a_n$	$a_{n+1} < a_n$	$\sum_{k=1}^{\infty} a_k$	$\{s_k\}_{k=1}^n$	$\sum_{k=1}^{\infty} (-1)^{k-1} a_k$	$\sum_{k=1}^{\infty} a_k $	$\sum_{k=1}^{\infty} \frac{1}{k^p}$
Geometric Infinite Series		Power Series		Taylor Polynomial		Binomial Infinite Series	
$\sum_{k=1}^{\infty} ar^{k-1}$		$\sum_{k=1}^{\infty} a_k (x-a)^k$		$\sum_{k=0}^n \frac{f^{(k)}(a)(x-a)^k}{k!}$		$\sum_{k=0}^n \binom{n}{k} x^k$	