



L'Hospital's Rule

If $\lim_{x \rightarrow c} \frac{f(x)}{g(x)}$ approaches $\frac{0}{0}$ or $\frac{\infty}{\infty}$,
then $\lim_{x \rightarrow c} \frac{f(x)}{g(x)} = \lim_{x \rightarrow c} \frac{f'(x)}{g'(x)}$

derivative rules

The Constant Rule

$$\frac{d}{dx} [c] = 0$$

$$\frac{d}{dx} [x] = 1$$

The Product Rule

$$\frac{d}{dx} [cx] = c$$

$$\frac{d}{dx} [f(x)g(x)] = f'(x)g(x) + f(x)g'(x)$$

The Quotient Rule

$$\frac{d}{dx} \left[\frac{f(x)}{g(x)} \right] = \frac{g(x)f'(x) - f(x)g'(x)}{[g(x)]^2}$$

The Power Rule

$$\frac{d}{dx} [x^n] = nx^{n-1}$$

Multiplication

$$\frac{d}{dx} [cf(x)] = cf'(x)$$

The Chain Rule

$$\frac{d}{dx} [f(g(x))] = f'(g(x))g'(x)$$

area under $f(x)$

$$\int_a^b f(x) dx$$

area between $f(x)$ and $g(x)$

$$\int_a^b [f(x) - g(x)] dx$$

indeterminate forms

$$\frac{0}{0} \quad \frac{\infty}{\infty} \quad 0 \cdot \infty \quad \infty - \infty \quad 0^0 \quad 1^\infty$$

definition of a derivative

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

$$\frac{d}{dx} [e^x] = e^x$$

$$\frac{d}{dx} [\ln(x)] = \frac{1}{x}$$

Addition / Subtraction

$$\frac{d}{dx} [f(x) + g(x)] = f'(x) + g'(x)$$

$$\frac{d}{dx} [f(x) - g(x)] = f'(x) - g'(x)$$

$$\frac{d}{dx} [\sin x] = \cos x$$

$$\frac{d}{dx} [\cos x] = -\sin x$$

$$\frac{d}{dx} [\tan x] = \sec^2 x$$

$$\frac{d}{dx} [\sec x] = \sec x \tan x$$

$$\frac{d}{dx} [\csc x] = -\csc x \cot x$$

$$\frac{d}{dx} [\cot x] = -\csc^2 x$$

Mean Value Theorem

$$f'(c) = \frac{f(b) - f(a)}{b - a}$$

Average Value

$$\frac{1}{b-a} \int_a^b f(x) dx$$

Antiderivative rules

$f(x)$	$F(x)$
x^n	$\frac{1}{n+1} x^{n+1} + C$
e^x	$e^x + C$
$\frac{1}{x}$	$\ln x + C$
$\sin x$	$-\cos x + C$
$\cos x$	$\sin x + C$
$\sec^2 x$	$\tan x + C$
$\sec x \tan x$	$\sec x + C$
$\csc x \cot x$	$-\csc x + C$
$\csc^2 x$	$-\cot x + C$

definite integral

$$\int_a^b f(x) dx$$

b = upper limit
 a = lower limit

Integration by Parts

$$\int u dv = uv - \int v du$$

u-substitution

$$\int f(g(x))g'(x) dx = \int f(u) du = F(g(x)) + C$$

If $u = g(x)$, then $du = g'(x) dx$

Sigma Sum Notation

$$\sum_{i=1}^n a_i = a_1 + a_2 + a_3 + \dots + a_n$$

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Xiang Xie



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