l'Hopital's Rule

If $\dfrac{f(a)}{g(a)} = \dfrac{0}{0}$ or $= \dfrac{\infty}{\infty}$,

then $\lim\limits_{x \to a} \dfrac{f(x)}{g(x)} = \lim\limits_{x \to a} \dfrac{f'(x)}{g'(x)}$

Average Rate of Change
(slope of the secant line)

If the points $(a, f(a))$ and $(b, f(b))$ are on the graph of $f(x)$ the average rate of change of $f(x)$ on the interval $[a, b]$ is

$$\frac{f(b) - f(a)}{b - a}$$

Definition of Derivative
(slope of the tangent line)

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

Derivatives

$\dfrac{d}{dx}(x^n) = nx^{n-1}$

$\dfrac{d}{dx}(\sin x) = \cos x$

$\dfrac{d}{dx}(\cos x) = -\sin x$

$\dfrac{d}{dx}(\tan x) = \sec^2 x$

$\dfrac{d}{dx}(\cot x) = -\csc^2 x$

$\dfrac{d}{dx}(\sec x) = \tan x \sec x$

$\dfrac{d}{dx}(\csc x) = -\cot x \csc x$

$\dfrac{d}{dx}(\ln u) = \dfrac{1}{u}\,du$

$\dfrac{d}{dx}(e^u) = e^u\,du$

$\dfrac{d}{dx}(\log_a x) = \dfrac{1}{x \ln a}$

$\dfrac{d}{dx}(a^u) = a^u (\ln a)\,du$

Properties of Log and Ln

1. $\ln 1 = 0$
2. $\ln e^a = a$
3. $e^{\ln x} = x$
4. $\ln x^n = n \ln x$
5. $\ln(ab) = \ln a + \ln b$
6. $\ln\left(\frac{a}{b}\right) = \ln a - \ln b$

Differentiation Rules
Chain Rule

$$\frac{d}{dx}[f(u)] = f'(u)\frac{du}{dx}$$

Product Rule

$$\frac{d}{dx}(uv) = u\frac{dv}{dx} + v\frac{du}{dx}$$

Quotient Rule

$$\frac{d}{dx}\left(\frac{u}{v}\right) = \frac{v\dfrac{du}{dx} - u\dfrac{dv}{dx}}{v^2}$$

Mean Value & Rolle's Theorem

If the function $f(x)$ is continuous on $[a, b]$ and the first derivative exists on the interval (a, b), then there exists a number $x = c$ on (a, b) such that $f'(c) = \dfrac{f(b) - f(a)}{b - a}$

if $f(a) = f(b)$, then $f'(c) = 0$.

Curve sketching and analysis

$y = f(x)$ must be continuous at each:

critical point: $\dfrac{dy}{dx} = 0$ or undefined.

local minimum: $\dfrac{dy}{dx}$ goes $(-,0,+)$ or

$(-,und,+)$ or $\dfrac{d^2y}{dx^2} > 0$

local maximum: $\dfrac{dy}{dx}$ goes $(+,0,-)$ or

$(+,und,-)$ or $\dfrac{d^2y}{dx^2} < 0$

Absolute Max/Min.: Compare local extreme values to values at endpoints.

pt of inflection : concavity changes.

$\dfrac{d^2y}{dx^2}$ goes $(+,0,-),(-,0,+)$, $(+,und,-)$, or $(-,und,+)$

"PLUS A CONSTANT"

The Fundamental Theorem of Calculus

$$\int_a^b f(x)\,dx = F(b) - F(a)$$

where $F'(x) = f(x)$

2nd Fundamental Theorem of Calculus

$$\frac{d}{dx}\int_a^{g(x)} f(x)\,dx = f(g(x)) \cdot g'(x)$$

Average Value

If the function $f(x)$ is continuous on $[a, b]$ and the first derivative exist on the interval (a, b), then there exists a number $x = c$ on (a, b) such that

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

$f(c)$ is the average value

Euler's Method

If given that $\dfrac{dy}{dx} = f(x, y)$ and

that the solution passes through (x_0, y_0), then

$$x_{new} = x_{old} + \Delta x$$

$$y_{new} = y_{old} + \frac{dy}{dx}\bigg|_{(x_{old}, y_{old})} \cdot \Delta x$$

Logistics Curves

$$P(t) = \frac{L}{1 + Ce^{-Lkt}},$$

where L is carrying capacity
Maximum growth rate occurs when $P = \frac{1}{2} L$

$$\frac{dP}{dt} = kP(L - P) \text{ or}$$

$$\frac{dP}{dt} = (Lk)P\left(1 - \frac{P}{L}\right)$$

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