

AP CALCULUS BC
Stuff you MUST Know Cold

L'Hopital's Rule

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

$$\text{then } \lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \lim_{x \rightarrow a} \frac{f'(x)}{g'(x)}$$

**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)**

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

Derivatives

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

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

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

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

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

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

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

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

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

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

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

Properties of Log and Ln

$$1. \ln 1 = 0 \quad 2. \ln e^x = x$$

$$3. e^{\ln x} = x \quad 4. \ln x^a = a \ln x$$

$$5. \ln(ab) = \ln a + \ln b$$

$$6. \ln\left(\frac{a}{b}\right) = \ln a - \ln b$$

**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

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

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

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

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

Curve sketching and analysis

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

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

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

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

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

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

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

pt of inflection: concavity changes.

$$\frac{d^2 y}{dx^2} \text{ goes } (+, \infty, -), (-, \infty, +), \\ (+, \text{und}, -), \text{ or } (-, \text{und}, +)$$

"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 exists 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 $\frac{dy}{dx} = f(x, y)$ and

that the solution passes through

(x_0, y_0) , then

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

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

Logistics Curves

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

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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