

ABSOLUTE VALUES

$$|x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$$

$$|x+4| = \begin{cases} x+4 & \text{if } x+4 \geq 0 \\ -(x+4) & \text{if } x+4 < 0 \end{cases}$$

FACTORING SPECIAL POLYNOMIALS

$$A^2 - B^2 = (A+B)(A-B)$$

$$A^3 - B^3 = (A-B)(A^2 + AB + B^2)$$

$$A^3 + B^3 = (A+B)(A^2 - AB + B^2)$$

$$\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1 \quad \lim_{x \rightarrow 0} \frac{x}{\sin x} = 1$$

$$\lim_{x \rightarrow a} f(x) = L \text{ if and only if } \lim_{x \rightarrow a^-} f(x) = L = \lim_{x \rightarrow a^+} f(x)$$

Limits = ∞

$$\lim_{x \rightarrow a^+} f(x) = \infty \text{ when } \lim_{x \rightarrow a^+} \frac{1}{f(x)} = 0 \text{ and } f(x) > 0 \text{ when } x > a$$

$$\lim_{x \rightarrow a^+} f(x) = -\infty \text{ when } \lim_{x \rightarrow a^+} \frac{1}{f(x)} = 0 \text{ and } f(x) < 0 \text{ when } x > a$$

Limits at ∞

$$\lim_{x \rightarrow \infty} f(x) = \lim_{x \rightarrow 0^+} F\left(\frac{1}{x}\right)$$

DIVIDE EACH TERM BY THE HIGHEST POWER OF x

LIMIT LAWS FOR USE IN PROOFS

$$\textcircled{1} \lim_{x \rightarrow a} [f(x) + g(x)] = \lim_{x \rightarrow a} f(x) + \lim_{x \rightarrow a} g(x)$$

$$\textcircled{2} \lim_{x \rightarrow a} [f(x) - g(x)] = \lim_{x \rightarrow a} f(x) - \lim_{x \rightarrow a} g(x)$$

$$\textcircled{3} \lim_{x \rightarrow a} [cf(x)] = c \lim_{x \rightarrow a} f(x)$$

$$\textcircled{4} \lim_{x \rightarrow a} [f(x)g(x)] = \lim_{x \rightarrow a} f(x) \cdot \lim_{x \rightarrow a} g(x)$$

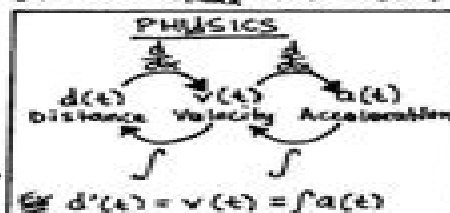
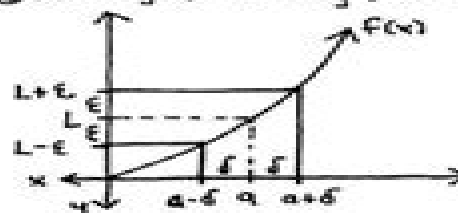
$$\textcircled{5} \lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{\lim_{x \rightarrow a} f(x)}{\lim_{x \rightarrow a} g(x)} \text{ if } \lim_{x \rightarrow a} g(x) \neq 0$$

ϵ - δ Notation

$\lim_{x \rightarrow a} f(x) = L$ for any $\epsilon > 0$ we can find $\delta > 0$ such that whenever

$$0 < |x - a| < \delta \text{ then } |f(x) - L| < \epsilon$$

$\textcircled{1}$ Solving for δ any δ smaller than δ_{\max} will work



DERIVATIVE BY DEFINITION

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

$$\lim_{x \rightarrow a} \frac{f(x) - f(a)}{x - a} \quad \textcircled{2} \text{ Use the first one most}$$

Slope of a line through two points $(x_1, y_1), (x_2, y_2)$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Slope-Intercept Form
 $y = mx + b$

Point-slope equation of a line through point (a, b) with slope m

$$y - b = m(x - a) \text{ or } y = m(x - a) + b$$

DERIVATION RULES

POWER RULE

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

CONSTANT MULTIPLIER RULE

$$\frac{d}{dx} kf(x) = k \frac{d}{dx} f(x)$$

SUM RULE

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

DERIVATIVE OF A CONSTANT

$$\frac{d}{dx} C = 0$$

PRODUCT RULE

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

QUOTIENT RULE

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

CHAIN RULE

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

INTERMEDIATE VALUE THEOREM

Suppose that f is continuous on the closed interval $[a, b]$ and let N be any number strictly between $f(a)$ and $f(b)$.

Then there exists a number c in (a, b) such that $f(c) = N$.



SQUEEZE THEOREM

If $f(x) \leq g(x) \leq h(x)$ for all x in an open interval that contains a (except possibly at a) and

$$\lim_{x \rightarrow a} f(x) = \lim_{x \rightarrow a} h(x) = L \text{ Then } \lim_{x \rightarrow a} g(x) = L$$



QUADRATIC FORMULA

If $ax^2 + bx + c = 0$ Then

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Mathematics For Students Volume 1 Ab Cy

Mike Jess



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