

AB™ Calc Memorization Sheet

Derivatives

Prod. $\frac{d}{dx}(uv) = uv' + vu'$

Quot. $\frac{d}{dx} \frac{t}{b} = \frac{bt' - tb'}{b^2}$

Chain $\frac{d}{dx} f(u) = f'(u) u'$

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

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

$\frac{d}{dx} \ln x = \frac{1}{x}$, $\frac{d}{dx} \ln u = \frac{u'}{u}$

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

$\frac{d}{dx} e^x = e^x$, $\frac{d}{dx} a^x = a^x \ln a$

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

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

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

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

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

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

$\frac{d}{dx} \arcsin x = \frac{1}{\sqrt{1-x^2}}$

$\frac{d}{dx} \arctan x = \frac{1}{1+x^2}$

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

$f'(a) = \lim_{x \rightarrow a} \frac{f(x) - f(a)}{x - a}$

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

Speed = $|v(t)|$

Displ. = $\int_a^b v(t) dt$

Total Dist. = $\int_a^b |v(t)| dt$

Speed is increasing when velocity and acceleration have the same sign.

Integrals

$\int x^n dx = \frac{x^{n+1}}{n+1} + C$, $n \neq -1$

$\int \frac{1}{x} dx = \ln|x| + C$

$\int \frac{u'}{u} dx = \ln|u| + C$

$\int e^x dx = e^x + C$

$\int a^x dx = \frac{a^x}{\ln a} + C$

$\int \cos x dx = \sin x + C$

$\int \sin x dx = -\cos x + C$

$\int \sec^2 x dx = \tan x + C$

$\int \tan x dx = -\ln|\cos x| + C$

$\int \frac{u'}{a^2 + u^2} du = \frac{1}{a} \arctan \frac{u}{a} + C$

$\int \frac{u'}{\sqrt{a^2 - u^2}} du = \arcsin \frac{u}{a} + C$

$\int \cot x dx = \ln|\sin x| + C$

$\int \sec x \tan x dx = \sec x + C$

$\int \csc^2 x dx = -\cot x + C$

$\int \csc x \cot x dx = -\csc x + C$

Trig Identities

$\tan x = \frac{\sin x}{\cos x}$

$\sin^2 x + \cos^2 x = 1$

$\tan^2 x = \sec^2 x - 1$

Volume

Disc

$V = \pi \int_a^b r^2 dx$

Washer

$V = \pi \int_a^b (R^2 - r^2) dx$

Cross Section

$V = \int_a^b A dx$

FTC Part 1

If $g(x) = \int_a^x f(t) dt$, then $g'(x) = f(x)$

FTC Part 2 with Riemann Sum

If $g(x) = \int_a^x f(t) dt$, then $g'(x) = f(x)$

FTC Part 2

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

Area of Trapezoid $A = \frac{1}{2}w(h_1 + h_2)$

Riemann Sum (add areas of rectangles)

Average Rate of Change: $AROC = \frac{f(b) - f(a)}{b - a}$ (slope between two pts)

Inst. Rate of Change: $IROC = f'(c)$ (slope at a single point)

Mean Value Thm.: $f'(c) = \frac{f(b) - f(a)}{b - a}$ (find c where $m_{\text{tan}} = m_{\text{sec}}$)

Must be continuous on $[a, b]$ and differentiable on (a, b)

Average Value of a Function: $f_{\text{avg}} = \frac{\int_a^b f(x) dx}{b - a}$ (avg. height = $\frac{\text{area}}{\text{width}}$)

Intermediate Value Thm. A function f that is continuous on $[a, b]$ takes on every y -value between $f(a)$ and $f(b)$.

Extreme Value Thm. A function f that is continuous on $[a, b]$ has both an absolute minimum and an absolute maximum on the interval.

Definition of Continuity A function f is continuous at an x -value c if and only if

$\lim_{x \rightarrow c^-} f(x) = \lim_{x \rightarrow c^+} f(x) = f(c)$

Squeeze Theorem If $f(x) \leq g(x) \leq h(x)$ for all $x \neq c$ in some interval containing c

and if $\lim_{x \rightarrow c} f(x) = L = \lim_{x \rightarrow c} h(x)$, then $\lim_{x \rightarrow c} g(x) = L$.

Jim Rahn Ap Calculus

James Stewart



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