

AP CALC BC FORMULA STUDY GUIDE

Absolute Value

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

Even / Odd Function

evaluate $f(x)$	f' is	symmetric
$f(-x) = f(x)$	even	$y = \text{axis}$
$f(-x) = -f(x)$	odd	origin

Theorems

$$\lim_{x \rightarrow a} f(g(x)) = f(\lim_{x \rightarrow a} g(x))$$

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

Horizontal Asymptote(s) of f

$$y = \lim_{x \rightarrow \infty} f(x) \text{ or } y = \lim_{x \rightarrow -\infty} f(x)$$

Infinite Limits

$$\lim_{x \rightarrow \infty} \frac{f(x)}{g(x)}$$

- if $f(x)$ grows faster, the limit = ∞
- if $g(x)$ grows faster, the limit = 0
- if $f(x)$ & $g(x)$ are polynomials with the same degree, the limit = the ratio of their leading coefficients

Continuity

f is continuous at a number a , if

(1) $f(a)$ is defined

(2) $\lim_{x \rightarrow a} f(x)$ exists

(3) $\lim_{x \rightarrow a} f(x) = f(a)$

Intermediate Value Theorem

If f is continuous on $[a, b]$ and f is arbitrary between

$f(a)$ and $f(b)$, then there is at least one number c in $[a, b]$ such that $f(c) = M$.



Average Rate of Change of a function $f(x)$ over closed

interval $[a, b]$ is $\frac{f(b) - f(a)}{b - a}$

Chain Rule

Definition of a Derivative

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

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

Derivatives

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

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

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

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

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

$$\frac{d}{dx} (e^{ax}) = ae^{ax}$$

$$\frac{d}{dx} \sin^{-1}(x) = \frac{1}{\sqrt{1-x^2}}$$

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

$$\frac{d}{dx} \cos^{-1}(x) = -\frac{1}{\sqrt{1-x^2}}$$

$$\frac{d}{dx} \tan^{-1}(x) = \frac{1}{1+x^2}$$

$$\frac{d}{dx} [f^{-1}(x)] = \frac{1}{f'(f^{-1}(x))}$$

Product Rule

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

Quotient Rule

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

Chain Rule

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

Linear Approximation / Tangent

Line approximation of f at a is

$$L(x) = f'(a)(x-a) + f(a)$$

L'Hopital's Rule

if $\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = 0/0$ or ∞/∞ ,

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

Mean Value Theorem

if f is continuous on $[a, b]$ and differentiable on (a, b) , then there is a number c in (a, b) such that

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



Extreme Value Theorem

if f is continuous on $[a, b]$, then f has both a minimum and a maximum on the interval.

Critical Number

c is a critical number of f if either $f'(c)$ does not exist or $f'(c) = 0$.

Absolute minimum/maximum of f over a closed interval $[a, b]$

- (1) Find the critical values of f
- (2) Plug critical values and endpoints into f to find the absolute min/max

Increasing / Decreasing

Let f be continuous on $[a, b]$ and differentiable on (a, b) .

- if $f'(x) > 0$, f is increasing
- if $f'(x) < 0$, f is decreasing

First Derivative Test

Let c be a critical number of a continuous function f .

- if $f'(x)$ changes from positive to negative at c , then f has a local maximum at c
- if $f'(x)$ changes from negative to positive at c , then f has a local minimum at c

Concavity

- if $f''(x) > 0$, f is concave up
- if $f''(x) < 0$, f is concave down

Point of Inflection

is where f is continuous and changes from concave up to concave down, or vice versa.

Second Derivative Test

if f has a critical value at c , $f'(c) = 0$, and

- if $f''(c) > 0$, then f has a local minimum at c
- if $f''(c) < 0$, then f has a local maximum at c

Particle motion at rest: $v(t) = 0$

Moving in positive direction: $a(t) > 0$

Moving in negative direction: $a(t) < 0$

Calculus Bc Ap Study Guide

William Ma



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teach AP Calculus AP Statistics and other math courses Mr Schwartz is always looking for ways to provide teachers with new and innovative teaching materials believing that it should be the goal of every math teacher not only to teach students mathematics but also to find joy and beauty in math as well

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