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

$f(-x) = f(x)$	even	y-axis
$f(-x) = -f(x)$	odd	origin

Theorems

$$\lim_{x \to a} f(g(x)) = f\left(\lim_{x \to a} g(x)\right)$$

$$\lim_{x \to 0} \frac{\sin x}{x} = 1 \qquad \lim_{x \to 0} \frac{\cos x - 1}{x} = 0$$

Horizontal Asymptote(s) of f

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

Infinite Limits

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

- if $f(x)$ grows faster, the limit $= \infty$
- 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. $\lim_{x \to a} f(x)$ exists
3. $\lim_{x \to a} f(x) = f(a)$

Intermediate Value Theorem

If f is continuous on $[a,b]$ and N is a number between $f(a)$ and $f(b)$, then there is at least one number c in $[a,b]$ such that $f(c) = N$.

Average Rate of Change

of a function $f(x)$ over closed interval $[a,b]$ is $\dfrac{f(b) - f(a)}{b - a}$

Definition of a Derivative

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

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

Derivatives

$$\frac{d}{dx}[\sin x] = \cos x \qquad \frac{d}{dx}[x^n] = nx^{n-1}$$

$$\frac{d}{dx}[\cos x] = -\sin x \qquad \frac{d}{dx}[e^x] = e^x$$

$$\frac{d}{dx}[\tan x] = \sec^2 x \qquad \frac{d}{dx}[a^x] = a^x \ln a$$

$$\frac{d}{dx}[\sin^{-1} x] = \frac{1}{\sqrt{1 - x^2}} \qquad \frac{d}{dx}[\ln x] = \frac{1}{x}$$

$$\frac{d}{dx}[\cos^{-1} x] = -\frac{1}{\sqrt{1 - x^2}}$$

$$\frac{d}{dx}[\tan^{-1} x] = \frac{1}{1 + x^2}$$

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

Product Rule

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

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

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

L'Hopital's Rule

if $\lim_{x \to a} \dfrac{f(x)}{g(x)} = \dfrac{0}{0}$ or $\dfrac{\infty}{\infty}$,

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

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 (right/up/forward): $v(t) > 0$

Moving in negative direction (left/down/backward): $v(t) < 0$

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