

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 $f(x)$ $f(-x) = f(x)$	f' is even	symmetric to $y = x$
$f(-x) = -f(x)$	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

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

- 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 coefficient to

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

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

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

Derivatives

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Moving in negative direction

(left/backward): $v(t) < 0$

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TD Snyder



Calculus Bc Ap Study Guide:

The Top Books of the Year Calculus Bc Ap Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Calculus Bc Ap Study Guide : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Calculus Bc Ap Study Guide : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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