

# 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 1 with two tabs

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  $\lim_{x \rightarrow c} g(x) = L$ .

# Laying The Foundation Ap Calculus Answer Key

**Christian Drosten**



## **Laying The Foundation Ap Calculus Answer Key:**

Laying The Foundation Ap Calculus Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. Laying The Foundation Ap Calculus Answer Key : Colleen Hoovers "It Ends with Us" This touching 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. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating 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, entrancing 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 exceptional and suspenseful 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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