

# BC Calc Memorization Sheet

## Derivatives

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

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

$$\frac{d}{dx} \log_b x = \frac{1}{x \ln b}$$

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

$$\frac{d}{dx} b^x = b^x \cdot \ln b$$

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

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

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

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

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

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

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

## Differentiation Rules

Prod.

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

Quot.

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

Chain

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

## Definition of Derivative

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

Inv Fun Theorem

$f(x)$  (a,b) slope = m

$f^{-1}(x)$  (b,a) slope =  $\frac{1}{m}$

## Integrals

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

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

## Integration Rules

U-Substitution

$$\int f(g(x)) dx \quad \text{let } u = g(x)$$

Integration by Parts

$$\int u dv = uv - \int v du$$

Decomposing into P.F.

$$\frac{1}{(cx+d)(hx+k)} = \frac{A}{(cx+d)} + \frac{B}{(hx+k)}$$

## Trig Identities

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

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

## L'Hopital's Rule

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

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

## Volume

Disc

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

Washer

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

Shell

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

Cross Section

$$V = \int_a^b A dx$$

## First Fundamental Theorem

$$\frac{d}{dx} \int_a^{g(x)} f(t) dt = f(g(x)) \cdot g'(x)$$

## Second Fundamental Theorem

$$\int_a^b f(t) dt = F(b) - F(a) \quad \text{where } F'(x) = f(x)$$

Position, Vel, Acc

$$v(t) = \frac{d}{dt}(\text{pos}) \quad a(t) = \frac{d}{dt}(v(t))$$

$$\text{displacement} = \int_a^b v(t) dt$$

$$T.D.T. = \int_a^b |v(t)| dt$$

$$\text{speed} = |vel|$$

Alt. Series Error: error  $\leq |a_{n+1}|$  (the next term)

Lagrange Error:

$$\text{error} \leq \left| \frac{f^{(n+1)}(c)(b-a)^{n+1}}{(n+1)!} \right| \quad \text{where}$$

$$|f^{(n+1)}(c)|$$

is the maximum value of  $f^{(n+1)}(x)$  on  $[a,b]$ .

## McLaurin Series to have memorized

$$e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots + \frac{x^n}{n!} + \dots$$

$$\sin x = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \dots + \frac{(-1)^n x^{2n+1}}{(2n+1)!} + \dots$$

$$\cos x = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \dots + \frac{(-1)^n x^{2n}}{(2n)!} + \dots$$

## Logistic

$$\frac{dp}{dt} = \frac{k}{M} P (M - P)$$

$$P = \frac{M}{1 + C e^{-kt}}$$

M = carrying capacity

## Pt Slope Form

$$y - y_1 = m(x - x_1)$$

## Taylor Series

$$f(x) = f(a) + f'(a)(x-a) + \frac{f''(a)}{2!}(x-a)^2 + \frac{f'''(a)}{3!}(x-a)^3 + \dots + \frac{f^{(n)}(a)}{n!}(x-a)^n + \dots$$

Maclaurin Series (Taylor series with  $a = 0$ )

## Euler's Method

(x,y)	$\frac{dy}{dx}$	$\Delta x$	$\Delta y = \frac{dy}{dx} \Delta x$	(x,y)

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### **Table of Contents Sample Exam 6 8th Edition Calculus Bc**

1. Understanding the eBook Sample Exam 6 8th Edition Calculus Bc
  - The Rise of Digital Reading Sample Exam 6 8th Edition Calculus Bc
  - Advantages of eBooks Over Traditional Books
2. Identifying Sample Exam 6 8th Edition Calculus Bc
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Sample Exam 6 8th Edition Calculus Bc
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Exam 6 8th Edition Calculus Bc
  - Personalized Recommendations
  - Sample Exam 6 8th Edition Calculus Bc User Reviews and Ratings

- Sample Exam 6 8th Edition Calculus Bc and Bestseller Lists
- 5. Accessing Sample Exam 6 8th Edition Calculus Bc Free and Paid eBooks
  - Sample Exam 6 8th Edition Calculus Bc Public Domain eBooks
  - Sample Exam 6 8th Edition Calculus Bc eBook Subscription Services
  - Sample Exam 6 8th Edition Calculus Bc Budget-Friendly Options
- 6. Navigating Sample Exam 6 8th Edition Calculus Bc eBook Formats
  - ePub, PDF, MOBI, and More
  - Sample Exam 6 8th Edition Calculus Bc Compatibility with Devices
  - Sample Exam 6 8th Edition Calculus Bc Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sample Exam 6 8th Edition Calculus Bc
  - Highlighting and Note-Taking Sample Exam 6 8th Edition Calculus Bc
  - Interactive Elements Sample Exam 6 8th Edition Calculus Bc
- 8. Staying Engaged with Sample Exam 6 8th Edition Calculus Bc
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sample Exam 6 8th Edition Calculus Bc
- 9. Balancing eBooks and Physical Books Sample Exam 6 8th Edition Calculus Bc
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sample Exam 6 8th Edition Calculus Bc
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Exam 6 8th Edition Calculus Bc
  - Setting Reading Goals Sample Exam 6 8th Edition Calculus Bc
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Exam 6 8th Edition Calculus Bc
  - Fact-Checking eBook Content of Sample Exam 6 8th Edition Calculus Bc
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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