

# BASIC CALCULUS EXAM

## Part 1: Limits

Evaluate the following limits

$$1) \lim_{x \rightarrow 1} \frac{\sqrt[3]{x} - 1}{\sqrt{x} - 1}$$

$$2) \lim_{x \rightarrow 0} \frac{\sqrt{x+3} - \sqrt{3}}{x}$$

$$3) \lim_{x \rightarrow 0} \frac{\cos(2x) - 1}{\cos x - 1}$$

$$4) \lim_{x \rightarrow 27} \frac{x - 27}{x^{1/3} - 3}$$

$$5) \lim_{x \rightarrow 0^-} x^3 \cos\left(\frac{2}{x}\right)$$

$$6) \lim_{x \rightarrow -\infty} \frac{x^2 (\sin x + \cos^3 x)}{(x^2 + 1)(x - 3)}$$

$$7) \lim_{x \rightarrow 0} \frac{\sin^{-1} 4x}{\tan^{-1} 5x}$$

$$8) \lim_{x \rightarrow 0^+} x^{x^x}$$

$$9) \lim_{x \rightarrow +\infty} \frac{7x^2 + x - 100}{2x^2 - 5x}$$

$$10) \lim_{x \rightarrow +\infty} \sqrt{\frac{x^3 + 7x}{4x^3 + 5}}$$

$$11) \lim_{x \rightarrow +\infty} (3^x + 3^{2x})^{\frac{1}{x}}$$

For 12-15

$$f(x) = \begin{cases} \frac{1}{x^2} & \text{if } x < -1 \\ 2 & \text{if } -1 \leq x < 1 \\ 3 & \text{if } x = 1 \\ x+1 & \text{if } 1 < x \leq 2 \\ \frac{-1}{(x-2)^2} & \text{if } x > 2 \end{cases}$$

$$12) \lim_{x \rightarrow -1} f(x)$$

$$13) \lim_{x \rightarrow 1} f(x)$$

$$14) \lim_{x \rightarrow 2} f(x)$$

$$15) \lim_{x \rightarrow \frac{3}{2}} f(x)$$

# Calculus Problem Solutions

**CL Gary**



## Calculus Problem Solutions:

## **Calculus Problem Solutions** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Calculus Problem Solutions**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Calculus Problem Solutions**

1. Understanding the eBook Calculus Problem Solutions
  - The Rise of Digital Reading Calculus Problem Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Calculus Problem Solutions
  - 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 eBook Platform
  - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus Problem Solutions
  - Personalized Recommendations
  - eBook Platform User Reviews and Ratings
  - eBook Platform Bestseller Lists

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