

# 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

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

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

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

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

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

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## **Table of Contents Calculus Solutions**

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

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