

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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Jianjun Gao



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Table of Contents Calculus Questions With Answers

1. Understanding the eBook Calculus Questions With Answers
 - The Rise of Digital Reading Calculus Questions With Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Calculus Questions With Answers
 - 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 Questions With Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus Questions With Answers
 - Personalized Recommendations
 - Calculus Questions With Answers User Reviews and Ratings
 - Calculus Questions With Answers and Bestseller Lists
5. Accessing Calculus Questions With Answers Free and Paid eBooks
 - Calculus Questions With Answers Public Domain eBooks
 - Calculus Questions With Answers eBook Subscription Services
 - Calculus Questions With Answers Budget-Friendly Options

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