

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

Yicheng Fang



Calculus Problem Solutions:

The book delves into Calculus Problem Solutions. Calculus Problem Solutions is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Calculus Problem Solutions, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Calculus Problem Solutions
 - Chapter 2: Essential Elements of Calculus Problem Solutions
 - Chapter 3: Calculus Problem Solutions in Everyday Life
 - Chapter 4: Calculus Problem Solutions in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Calculus Problem Solutions. The first chapter will explore what Calculus Problem Solutions is, why Calculus Problem Solutions is vital, and how to effectively learn about Calculus Problem Solutions.
3. In chapter 2, the author will delve into the foundational concepts of Calculus Problem Solutions. This chapter will elucidate the essential principles that must be understood to grasp Calculus Problem Solutions in its entirety.
4. In chapter 3, the author will examine the practical applications of Calculus Problem Solutions in daily life. The third chapter will showcase real-world examples of how Calculus Problem Solutions can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Calculus Problem Solutions in specific contexts. The fourth chapter will explore how Calculus Problem Solutions is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Calculus Problem Solutions. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Calculus Problem Solutions.

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