

Tricky Integrals Using the Substitution Rule

$$\int x^3 \sqrt{x^2 + 5} dx = \int x^2 \sqrt{x^2 + 5} \cdot x dx = \int (u - 5) \sqrt{u} \frac{du}{2}$$

$$u = x^2 + 5 \rightarrow x^2 = u - 5$$

$$du = 2x dx \rightarrow x dx = \frac{du}{2}$$

$$\boxed{x^3 = x^2 \cdot x}$$

$$= \int (u - 5) u^{1/2} \frac{du}{2}$$

$$= \frac{1}{2} \int (u^{3/2} - 5u^{1/2}) du$$

$$= \frac{1}{2} \left(\frac{2}{5} u^{5/2} - 5 \left(\frac{2}{3} \right) u^{3/2} \right) + C$$

$$= \frac{1}{5} u^{5/2} - \frac{5}{3} u^{3/2} + C$$

$$= \frac{1}{5} (x^2 + 5)^{5/2} - \frac{5}{3} (x^2 + 5)^{3/2} + C$$

Calculus Of One Variable

Thomas Griffiths



Calculus Of One Variable:

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

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Calculus Of One Variable
- Chapter 2: Essential Elements of Calculus Of One Variable
- Chapter 3: Calculus Of One Variable in Everyday Life
- Chapter 4: Calculus Of One Variable in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Calculus Of One Variable. The first chapter will explore what Calculus Of One Variable is, why Calculus Of One Variable is vital, and how to effectively learn about Calculus Of One Variable.
3. In chapter 2, the author will delve into the foundational concepts of Calculus Of One Variable. This chapter will elucidate the essential principles that need to be understood to grasp Calculus Of One Variable in its entirety.
4. In chapter 3, this book will examine the practical applications of Calculus Of One Variable in daily life. The third chapter will showcase real-world examples of how Calculus Of One Variable can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Calculus Of One Variable in specific contexts. The fourth chapter will explore how Calculus Of One Variable is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Calculus Of One Variable. 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. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Calculus Of One Variable.

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