

1. In this problem, you will estimate $\int_0^{1/2} e^{-x^2} dx$ using Taylor series, and also review some earlier parts of the course. Let

$$f(x) = \int_0^x e^{-t^2} dt.$$

All Taylor notation refers to the Taylor series for f centered at 0.

In this problem all conceptual parts should be justified briefly (e.g. cite a theorem, write a sentence). For computational parts, show your work. At a certain point you may be tempted to justify a bound using just a picture of a graph; you need more justification than that.

- (a) Why does f have a Taylor series?
(E.g. why is f differentiable at 0? twice differentiable at 0? etc.)
- (b) Assume that the Taylor series for e^{-x^2} at 0 converges on \mathbb{R} . Does the Taylor series T for f at 0 converge on \mathbb{R} ? What is the largest domain on which T is continuous?
- (c) Calculate $f^{(n)}(x)$ for $n \leq 4$ and $T_n(x)$ for $n \leq 3$.
- (d) Use T_3 to estimate $\int_0^{1/2} e^{-x^2} dx$.
- (e) Use Taylor's remainder formula to find a bound for the error associated to the approximation in the previous part.
Hint: if $|g(x)| \leq M_1$ and $|h(x)| \leq M_2$ for all $x \in S$, then $|g(x)h(x)| \leq M_1 M_2$.
- (f) Explain why your calculations above show that $\int_0^{1/2} e^{-x^2} dx < 0.6$. You may use a calculator for this part.
- (g) Where did you use the fundamental theorem of calculus in this problem?
- (h) In part (e), you should have found an upper bound for $f^{(4)}$ on $[0, 1/2]$. For higher remainder terms, you would have looked for an upper bound for $f^{(n)}$. Is it possible that $f^{(n)}$ for some n is not bounded on $[0, 1/2]$?
You don't need to compute all the higher derivatives to answer this question!
- (i) What is $\lim_{x \rightarrow +\infty} f^{(n)}(x)$?
Checking all the details is a pain; instead, just show you thought about it.
Hint: every $f^{(n)}$ has the form $p(x)e^{-x^2}$ where $p(x)$ is a polynomial.
- (j) Does the previous part imply that $\lim_{x \rightarrow +\infty} R_n(x) = 0$?

Elementary Analysis Solution

Dr J W Bull



Elementary Analysis Solution:

The book delves into Elementary Analysis Solution. Elementary Analysis Solution is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Elementary Analysis Solution, encompassing both the fundamentals and more intricate discussions.

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

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