

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 Theory Calculus Homework Solutions

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Table of Contents Elementary Analysis Theory Calculus Homework Solutions

1. Understanding the eBook Elementary Analysis Theory Calculus Homework Solutions
 - The Rise of Digital Reading Elementary Analysis Theory Calculus Homework Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Analysis Theory Calculus Homework 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 Elementary Analysis Theory Calculus Homework Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elementary Analysis Theory Calculus Homework Solutions
 - Personalized Recommendations
 - Elementary Analysis Theory Calculus Homework Solutions User Reviews and Ratings

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