

$$\text{Let, } I = \int \frac{1 + x^{1/4}}{1 + x^{1/2}} dx \quad \text{and, } x = z^4$$

$$\text{So, } dx = 4z^3 dz$$

Now,

$$I = \int \frac{(1 + z)4z^3 dz}{1 + z^2} = 4 \int \frac{z^4 + z^3}{1 + z^2} dz$$

$$= 4 \int \frac{z^2(z^2 + 1) - (z^2 + 1) + z(z^2 + 1) - z - 1}{1 + z^2} dz$$

$$= 4 \left\{ \int (z^2 - 1 + z) dz - \int \frac{z dz}{z^2 + 1} - \int \frac{dz}{z^2 + 1} \right\}$$

$$= 4 \left\{ \frac{z^3}{3} - z + \frac{z^2}{2} - \frac{1}{2} \ln(z^2 + 1) - \tan^{-1} z \right\} + c$$

$$= 4 \left\{ \frac{x^{3/4}}{3} - x^{1/4} + \frac{x^{1/2}}{2} - \frac{1}{2} \ln(x^{1/2} + 1) \right.$$

$$\left. - \tan^{-1} x^{1/4} \right\} + c$$

$$[z = x^{(1/4)}]$$

Advanced Calculus Problem Solutions

Ensheng Dong



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Table of Contents Advanced Calculus Problem Solutions

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

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