

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

Stanley I. Grossman



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Table of Contents Calculus Of One Variable

1. Understanding the eBook Calculus Of One Variable
 - The Rise of Digital Reading Calculus Of One Variable
 - Advantages of eBooks Over Traditional Books
2. Identifying Calculus Of One Variable
 - 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 Calculus Of One Variable
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus Of One Variable
 - Personalized Recommendations
 - Calculus Of One Variable User Reviews and Ratings
 - Calculus Of One Variable and Bestseller Lists

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