

$$96. \frac{1}{13}x^{13/12} - \frac{5}{8}x^{5/6} + \frac{4}{3}x^{3/4} + \frac{1}{7}x^{7/12} - 2x^{1/2} - 3x^{1/3} + 4x^{1/4} + 12x^{1/12} \\ - 2 \log(1 + x^{1/4}) - 4 \log(1 + x^{1/12}) - 4\sqrt{3} \arctan \frac{2}{\sqrt{3}} (x^{1/12} - \frac{1}{2}).$$

$$97. \frac{4}{7}(1 + e^x)^{7/4} - \frac{4}{3}(1 + e^x)^{3/4}.$$

$$98. -6\sqrt[5]{(1+x)^2}(\frac{1}{2} + \frac{1}{3}\sqrt[5]{(1+x)} + \frac{1}{8}\sqrt[5]{(1+x)} + \frac{1}{7}\sqrt{(1+x)} \\ + \frac{1}{8}\sqrt[5]{(1+x)^2} + \frac{1}{3}\sqrt[5]{(1+x)^3}).$$

$$99. \text{ Put } x + \frac{1}{x} = t: \frac{1}{2} \log \frac{x^2 - x + 1}{x^2 + x + 1}.$$

$$100. \frac{1}{n} \arccos \frac{1}{x^n}.$$

$$101. \frac{1}{n!} \left[\log x - \binom{n}{1} \log(x+1) + \binom{n}{2} \log(x+2) - + \dots \right. \\ \left. \pm \binom{n}{n} \log(x+n) \right].$$

$$102. \frac{(n-1)(n-3)\dots 1}{n(n-2)\dots 2} \cdot \frac{\pi}{2} \text{ if } n \text{ is even; } \frac{(n-1)(n-3)\dots 2}{n(n-2)\dots 3} \text{ if } n \\ \text{odd.}$$

$$103. 2^{12}/(1 \cdot 3 \cdot 5 \cdot 7 \cdot 9 \cdot 11 \cdot 13). \quad 104. \frac{(2n)!}{2^{2n}(n!)^2} \cdot \frac{\pi}{2}.$$

$$105. \frac{2^{2n}(n!)^2}{(2n+1)!}. \quad 106. \pi/16. \quad 107. \pi/32.$$

$$108. \int x^a (\log x)^m dx = \frac{x^{a+1} (\log x)^m}{a+1} - \frac{m}{a+1} \int x^a (\log x)^{m-1} dx.$$

$$109. \int x^n e^{ax} \sin bx dx = \frac{x^n e^{ax}}{a^2 + b^2} (a \sin bx - b \cos bx) \\ - \frac{an}{a^2 + b^2} \int x^{n-1} e^{ax} \sin bx dx + \frac{bn}{a^2 + b^2} \int x^{n-1} e^{ax} \cos bx dx.$$

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Table of Contents Integral Calculus Solution Manual

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

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