# Simpson's Rule



1. (a) Estimate  $\int_{1}^{3} \frac{1}{x} dx$  using Simpson's rule

with 4 strips, giving your answer to 4 d.p.

Solution:

$$A \approx \frac{h}{3} (y_0 + 4y_1 + 2y_2 + 4y_3 + y_4)$$

$$n=4, \quad h=\frac{3-1}{4}=0.5$$

$\boldsymbol{x}$	1	1.5	2	2.5	3
y	1	0.66667	0.5	0.4	0.33333

$$\Rightarrow \int_1^3 \frac{1}{x} dx \approx 1.1000 \quad (4 \text{ d.p.})$$

# **Hsc Mathematics Volume Using Simpsons Rule**

Shasha Hu

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## **Table of Contents Hsc Mathematics Volume Using Simpsons Rule**

- 1. Understanding the eBook Hsc Mathematics Volume Using Simpsons Rule
  - The Rise of Digital Reading Hsc Mathematics Volume Using Simpsons Rule
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Hsc Mathematics Volume Using Simpsons Rule
  - 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 Hsc Mathematics Volume Using Simpsons Rule
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Hsc Mathematics Volume Using Simpsons Rule
  - Personalized Recommendations
  - $\circ\,$  Hsc Mathematics Volume Using Simpsons Rule User Reviews and Ratings
  - Hsc Mathematics Volume Using Simpsons Rule and Bestseller Lists
- 5. Accessing Hsc Mathematics Volume Using Simpsons Rule Free and Paid eBooks
  - Hsc Mathematics Volume Using Simpsons Rule Public Domain eBooks
  - Hsc Mathematics Volume Using Simpsons Rule eBook Subscription Services
  - Hsc Mathematics Volume Using Simpsons Rule Budget-Friendly Options

- 6. Navigating Hsc Mathematics Volume Using Simpsons Rule eBook Formats
  - o ePub, PDF, MOBI, and More
  - Hsc Mathematics Volume Using Simpsons Rule Compatibility with Devices
  - Hsc Mathematics Volume Using Simpsons Rule Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hsc Mathematics Volume Using Simpsons Rule
  - Highlighting and Note-Taking Hsc Mathematics Volume Using Simpsons Rule
  - Interactive Elements Hsc Mathematics Volume Using Simpsons Rule
- 8. Staying Engaged with Hsc Mathematics Volume Using Simpsons Rule
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hsc Mathematics Volume Using Simpsons Rule
- 9. Balancing eBooks and Physical Books Hsc Mathematics Volume Using Simpsons Rule
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hsc Mathematics Volume Using Simpsons Rule
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Mathematics Volume Using Simpsons Rule
  - Setting Reading Goals Hsc Mathematics Volume Using Simpsons Rule
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Mathematics Volume Using Simpsons Rule
  - Fact-Checking eBook Content of Hsc Mathematics Volume Using Simpsons Rule
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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