

6.4.2 — Definite Integrals: A Numerical Approach

Students receive introductory experience with this method when applied to the computation of arc length, and are introduced to the use of this method in the derivation of the arc length formula. This section extends students' understanding of the method to the computation of area.

We use the following signed regions:

A set S is a signed region if it is the region between two curves:

$$S = \{(x, y) \mid a \leq x \leq b, f(x) \leq y \leq g(x)\}$$

where a and b are real numbers, f and g are the two curves of the region, and the region's total signed area is $\int_a^b (g(x) - f(x)) dx$.

Example 1:

Consider the region S between the curves $y = x^2 + 2x + 3$ and $y = x^2 + 4x + 9$.

$$S = \int_{-3}^3 (x^2 + 4x + 9 - (x^2 + 2x + 3)) dx$$

$$= \int_{-3}^3 (2x + 6) dx$$

$$= 14$$

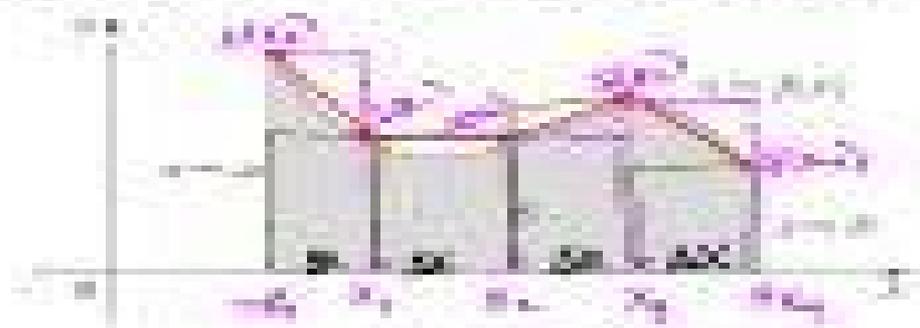
$$S = \int_{-3}^3 (x^2 + 4x + 9) dx - \int_{-3}^3 (x^2 + 2x + 3) dx$$

$$= \left[\frac{x^3}{3} + 2x^2 + 9x \right]_{-3}^3 - \left[\frac{x^3}{3} + x^2 + 3x \right]_{-3}^3$$

$$= \left(\frac{27}{3} + 18 + 27 \right) - \left(\frac{-27}{3} + 9 - 9 \right) - \left(\frac{27}{3} + 9 + 9 \right) + \left(\frac{-27}{3} + 9 - 9 \right)$$

$$= 72 - 0 - 36 + 0 = 36$$

We will now apply the above method to the computation of a definite integral. Let f be a function on the interval $[a, b]$ and $n \in \mathbb{N}$. Let the n subintervals be formed by the points $a = x_0 < x_1 < x_2 < \dots < x_n = b$.



$$\Delta A_n = \frac{b-a}{n}$$

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Table of Contents Calculus Maximus Notes 4 2t Def Int Num Int 4 2

1. Understanding the eBook Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - The Rise of Digital Reading Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - 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 Maximus Notes 4 2t Def Int Num Int 4 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - Personalized Recommendations
 - Calculus Maximus Notes 4 2t Def Int Num Int 4 2 User Reviews and Ratings
 - Calculus Maximus Notes 4 2t Def Int Num Int 4 2 and Bestseller Lists
5. Accessing Calculus Maximus Notes 4 2t Def Int Num Int 4 2 Free and Paid eBooks
 - Calculus Maximus Notes 4 2t Def Int Num Int 4 2 Public Domain eBooks
 - Calculus Maximus Notes 4 2t Def Int Num Int 4 2 eBook Subscription Services

- Calculus Maximus Notes 4 2t Def Int Num Int 4 2 Budget-Friendly Options
- 6. Navigating Calculus Maximus Notes 4 2t Def Int Num Int 4 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Calculus Maximus Notes 4 2t Def Int Num Int 4 2 Compatibility with Devices
 - Calculus Maximus Notes 4 2t Def Int Num Int 4 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - Highlighting and Note-Taking Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - Interactive Elements Calculus Maximus Notes 4 2t Def Int Num Int 4 2
- 8. Staying Engaged with Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Calculus Maximus Notes 4 2t Def Int Num Int 4 2
- 9. Balancing eBooks and Physical Books Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Calculus Maximus Notes 4 2t Def Int Num Int 4 2
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - Setting Reading Goals Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - Fact-Checking eBook Content of Calculus Maximus Notes 4 2t Def Int Num Int 4 2
 - 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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