

Chapter 7

7.1 Area & Distance

Let f be a continuous, nonnegative function on $[a, b]$:

$$\text{Area under } y = f(x) \text{ on } [a, b] = \lim_{n \rightarrow \infty} \sum_{i=1}^n f(c_i) \Delta x$$

$$= \text{area } [f(x_0) \Delta x + \dots + f(x_n) \Delta x]$$

$$= \text{width} \cdot \text{height}$$

Graphing calc: 1. $y = f(x)$

2. table constructed

3. table \rightarrow graph

Plotting x vs y = graph calc

1. start \rightarrow end $\rightarrow x_1, x_2$

2. start plot $(2nd = y=)$

3. graph

7.2 The Definite Integral

If f is a continuous function on $[a, b]$ and $[c, d] \subset [a, b]$ is a subinterval = subinterval

$$\int_a^b f(x) dx = \lim_{n \rightarrow \infty} \sum_{i=1}^n f(c_i) \Delta x$$

Area under

$$\text{Integral Area: } \int_a^b f(x) dx = \frac{1}{n} [f(x_1) + f(x_2) + \dots + f(x_n)]$$

Riemann Sum Supplement

$$f(c_n) = f(c_n + \Delta x) \quad \therefore \int_a^b f(x) dx = \lim_{n \rightarrow \infty} \sum_{i=1}^n f(c_i) \Delta x$$

\rightarrow turning definite integral into Riemann sum first

7.3 The Fundamental Theorem of Calculus

If f is continuous on $[a, b]$ and $F(a) = F(b)$, then $\int_a^b f(x) dx = F(b) - F(a)$

Example: $\int_1^2 x dx$

$$= \int_1^2 (x^2) dx \quad \text{antiderivative don't need initial = definite integral}$$

$$= \frac{x^3}{3} \Big|_1^2$$

$$= \left(\frac{2^3}{3} + \frac{1^3}{3} \right) - \left(\frac{1^3}{3} + \frac{1^3}{3} \right)$$

$$= -6$$

Anti: If $f(x) = x^n$, $n \neq -1$, then $\int x^n dx = \frac{x^{n+1}}{n+1} + C$

Anti: check if f is continuous

Derivatives of an Integral

Example: $h(x) = \int_1^x x^2 dx$

$$h(x) = F(x) - F(1)$$

$$h'(x) = F'(x) - 0$$

$$= 2x + C$$

$$= 2x + C$$

Ap Calculus Chapter 4 Review

William Ma



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1. Understanding the eBook Ap Calculus Chapter 4 Review
 - The Rise of Digital Reading Ap Calculus Chapter 4 Review
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Calculus Chapter 4 Review
 - 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 Ap Calculus Chapter 4 Review
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Calculus Chapter 4 Review
 - Personalized Recommendations
 - Ap Calculus Chapter 4 Review User Reviews and Ratings
 - Ap Calculus Chapter 4 Review and Bestseller Lists
5. Accessing Ap Calculus Chapter 4 Review Free and Paid eBooks
 - Ap Calculus Chapter 4 Review Public Domain eBooks

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