

Fourier Analysis, Stein and Shakarchi

Chapter 4 Some Applications of Fourier Series

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2018.05.31

Notation: $\mathbb{T} := [-\pi, \pi]$.

Exercises

1. Let $\gamma : [a, b] \rightarrow \mathbb{R}^2$ be a parametrization for the closed curve Γ .
(a) Prove that γ is a parametrization by arc-length if and only if the length of the curve from $\gamma(a)$ to $\gamma(s)$ is precisely $s - a$ for each $s \in [a, b]$, that is,

$$\int_a^s |\gamma'(t)| dt = s - a.$$

- (b) Prove that any curve Γ admits a parametrization by arc-length. [Hint: If η is any parametrization, let $h(s) = \int_a^s |\eta'(t)| dt$ and consider $\gamma = \eta \circ h^{-1}$.]

Proof. (a) $(\Rightarrow)$ is trivial. $(\Leftarrow)$ This is the definition of arc-length.

(b) is proved as hint and (a). □

2. Suppose $\gamma : [a, b] \rightarrow \mathbb{R}^2$ is a parametrization for a closed curve Γ , with $\gamma(t) = (x(t), y(t))$.
(a) Use integration by parts, one can show that

$$\frac{1}{2} \int_a^b (x(s)y'(s) - y(s)x'(s)) ds = \int_a^b x(s)y'(s) ds = - \int_a^b y(s)x'(s) ds.$$

- (b) Define the reverse parametrization of γ by $\gamma^- : [a, b] \rightarrow \mathbb{R}^2$ with $\gamma^-(t) = \gamma(b + a - t)$. The image of γ^- is precisely Γ , except that the points $\gamma^-(t)$ and $\gamma(t)$ travel in opposite directions. Thus γ^- "reverses" the orientation of the curve. It's easy to prove that

$$\int_{\gamma} (x dy - y dx) = - \int_{\gamma^-} (x dy - y dx).$$

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Arthur James Wells



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1. Understanding the eBook Solutions Manual Stein And Shakarchi Fourier Analysis
 - The Rise of Digital Reading Solutions Manual Stein And Shakarchi Fourier Analysis
 - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Manual Stein And Shakarchi Fourier Analysis
 - 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 Solutions Manual Stein And Shakarchi Fourier Analysis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Manual Stein And Shakarchi Fourier Analysis
 - Personalized Recommendations
 - Solutions Manual Stein And Shakarchi Fourier Analysis User Reviews and Ratings
 - Solutions Manual Stein And Shakarchi Fourier Analysis and Bestseller Lists
5. Accessing Solutions Manual Stein And Shakarchi Fourier Analysis Free and Paid eBooks
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 - Adjustable Fonts and Text Sizes of Solutions Manual Stein And Shakarchi Fourier Analysis
 - Highlighting and Note-Taking Solutions Manual Stein And Shakarchi Fourier Analysis
 - Interactive Elements Solutions Manual Stein And Shakarchi Fourier Analysis
8. Staying Engaged with Solutions Manual Stein And Shakarchi Fourier Analysis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solutions Manual Stein And Shakarchi Fourier Analysis
9. Balancing eBooks and Physical Books Solutions Manual Stein And Shakarchi Fourier Analysis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solutions Manual Stein And Shakarchi Fourier Analysis
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solutions Manual Stein And Shakarchi Fourier Analysis
 - Setting Reading Goals Solutions Manual Stein And Shakarchi Fourier Analysis
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solutions Manual Stein And Shakarchi Fourier Analysis
 - Fact-Checking eBook Content of Solutions Manual Stein And Shakarchi Fourier Analysis
 - 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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