

Further Engineering Mathematics 2020/21: Assignment 1

1. Let $f(x)$ be a function of period 2π such that

$$f(x) = \begin{cases} x, & 0 < x < \pi, \\ \pi, & \pi < x < 2\pi, \end{cases}$$
$$f(x) = f(x + 2\pi).$$

(a) Sketch a graph of $f(x)$ in the interval $-4\pi < x < 4\pi$. **[3 marks]**

(b) Show that the Fourier series for $f(x)$ in the interval $0 < x < 2\pi$ is

$$F(x) = \frac{3\pi}{4} - \frac{2}{\pi} \left[\cos(x) + \frac{1}{3^2} \cos(3x) + \frac{1}{5^2} \cos(5x) + \dots \right]$$
$$- \left[\sin(x) + \frac{1}{2} \sin(2x) + \frac{1}{3} \sin(3x) + \dots \right].$$

[14 marks]

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Further Engineering Mathematics

Shasha Hu



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Table of Contents Further Engineering Mathematics

1. Understanding the eBook Further Engineering Mathematics
 - The Rise of Digital Reading Further Engineering Mathematics
 - Advantages of eBooks Over Traditional Books
2. Identifying Further Engineering Mathematics
 - 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 Further Engineering Mathematics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Further Engineering Mathematics
 - Personalized Recommendations
 - Further Engineering Mathematics User Reviews and Ratings
 - Further Engineering Mathematics and Bestseller Lists
5. Accessing Further Engineering Mathematics Free and Paid eBooks
 - Further Engineering Mathematics Public Domain eBooks
 - Further Engineering Mathematics eBook Subscription Services
 - Further Engineering Mathematics Budget-Friendly Options

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