

### CALCULUS 3

#### Solutions for Final Exam

**Question 1.** Apply  $z$ -transform to both sides of the DE

$$y_{k+2} - 5y_{k+1} + 4y_k = \frac{1}{5^k}$$

use the advancing property to get

$$(z^2 Y(z) - z^2 y_0 - z y_1) - 5(z Y(z) - z y_0) + 4Y(z) = \frac{z}{z - 1/5} = \frac{5z}{5z - 1}$$

Use initial conditions  $y_0 = -1, y_1 = 0$ , we obtain

$$(z^2 Y(z) + z^2) - 5(z Y(z) + z) + 4Y(z) = \frac{5z}{5z - 1}$$

Re-arrange terms to get

$$(z^2 - 5z + 4)Y(z) = \frac{5z}{5z - 1} - z^2 + 5z = \frac{-5z^2 + 26z^2}{5z - 1}$$

This yields

$$\begin{aligned} \frac{Y(z)}{z} &= \frac{-5z^2 + 26z}{(5z - 1)(z^2 - 5z + 4)} = \frac{-5z^2 + 26z}{(5z - 1)(z - 4)(z - 1)} \\ &= \frac{(8/19)}{z - 4} - \frac{(7/4)}{z - 1} + \frac{(25/76)}{z - 1/5}. \end{aligned}$$

Thus

$$Y(z) = \frac{(8/19)z}{z - 4} - \frac{(7/4)z}{z - 1} + \frac{(25/76)z}{z - 1/5}.$$

Taking inverse  $z$ -transform gives us

$$\{y_k\} = \left\{ \frac{8}{19} 4^k - \frac{7}{4} + \frac{25}{76} \frac{1}{5^k} \right\}, \quad k \geq 0.$$

**Question 2.** The function

$$f(t) = 2t \quad (-1 < t < 1), \quad f(t) = f(t + 2)$$

is a periodic odd function with  $T = 2$ , so  $a_n = 0$  for all  $n$ .  $\omega = 2\pi/T = \pi$ .

$$\begin{aligned} b_n &= \frac{4}{2} \int_0^1 f(t) \sin n\omega t dt = 2 \int_0^1 2t \sin(n\pi t) dt \\ &= 4 \int_0^1 \frac{-1}{n\pi} t d \cos n\pi t \\ &= \frac{-4}{n\pi} t \cos n\pi t \Big|_0^1 + \int_0^1 \frac{4}{n\pi} \cos n\pi t dt \\ &= \frac{4}{n\pi} (0 - (-1)^n) + \frac{4}{(n\pi)^2} \sin n\pi t \Big|_0^1 \\ &= \frac{4}{n\pi} (-1)^{n+1}, \quad n \geq 1. \end{aligned}$$

# Calculus 3 Problems And Solutions

**J Rink**



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## **Table of Contents Calculus 3 Problems And Solutions**

1. Understanding the eBook Calculus 3 Problems And Solutions
  - The Rise of Digital Reading Calculus 3 Problems And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Calculus 3 Problems And Solutions
  - 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 3 Problems And Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus 3 Problems And Solutions
  - Personalized Recommendations
  - Calculus 3 Problems And Solutions User Reviews and Ratings
  - Calculus 3 Problems And Solutions and Bestseller Lists
5. Accessing Calculus 3 Problems And Solutions Free and Paid eBooks
  - Calculus 3 Problems And Solutions Public Domain eBooks
  - Calculus 3 Problems And Solutions eBook Subscription Services
  - Calculus 3 Problems And Solutions Budget-Friendly Options
6. Navigating Calculus 3 Problems And Solutions eBook Formats

- ePub, PDF, MOBI, and More
  - Calculus 3 Problems And Solutions Compatibility with Devices
  - Calculus 3 Problems And Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Calculus 3 Problems And Solutions
    - Highlighting and Note-Taking Calculus 3 Problems And Solutions
    - Interactive Elements Calculus 3 Problems And Solutions
  8. Staying Engaged with Calculus 3 Problems And Solutions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Calculus 3 Problems And Solutions
  9. Balancing eBooks and Physical Books Calculus 3 Problems And Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Calculus 3 Problems And Solutions
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Calculus 3 Problems And Solutions
    - Setting Reading Goals Calculus 3 Problems And Solutions
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Calculus 3 Problems And Solutions
    - Fact-Checking eBook Content of Calculus 3 Problems And Solutions
    - 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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