

# The Finite Difference Method: Example

Solve the following 2nd order ODE for initial conditions of  $y(0) = 5$  and  $y(10) = -1.5$ , Use  $\Delta x = 2$

$$8 \frac{d^2 y}{dx^2} - 2 \frac{dy}{dx} - y + x = 0$$

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- Using the divided differences equations:

$$\frac{dy}{dx} = \frac{y_{i+1} - y_{i-1}}{2 \cdot \Delta x}$$

$$\frac{d^2 y}{dx^2} = \frac{y_{i+1} - 2y_i + y_{i-1}}{\Delta x^2}$$

# Chapter 5 Finite Difference Methods York University

**RD Boyd**



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## **Table of Contents Chapter 5 Finite Difference Methods York University**

1. Understanding the eBook Chapter 5 Finite Difference Methods York University
  - The Rise of Digital Reading Chapter 5 Finite Difference Methods York University
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 5 Finite Difference Methods York University
  - 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 Chapter 5 Finite Difference Methods York University
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 5 Finite Difference Methods York University
  - Personalized Recommendations
  - Chapter 5 Finite Difference Methods York University User Reviews and Ratings
  - Chapter 5 Finite Difference Methods York University and Bestseller Lists
5. Accessing Chapter 5 Finite Difference Methods York University Free and Paid eBooks

- Chapter 5 Finite Difference Methods York University Public Domain eBooks
  - Chapter 5 Finite Difference Methods York University eBook Subscription Services
  - Chapter 5 Finite Difference Methods York University Budget-Friendly Options
6. Navigating Chapter 5 Finite Difference Methods York University eBook Formats
    - ePub, PDF, MOBI, and More
    - Chapter 5 Finite Difference Methods York University Compatibility with Devices
    - Chapter 5 Finite Difference Methods York University Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Chapter 5 Finite Difference Methods York University
    - Highlighting and Note-Taking Chapter 5 Finite Difference Methods York University
    - Interactive Elements Chapter 5 Finite Difference Methods York University
  8. Staying Engaged with Chapter 5 Finite Difference Methods York University
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Chapter 5 Finite Difference Methods York University
  9. Balancing eBooks and Physical Books Chapter 5 Finite Difference Methods York University
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Chapter 5 Finite Difference Methods York University
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Chapter 5 Finite Difference Methods York University
    - Setting Reading Goals Chapter 5 Finite Difference Methods York University
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Chapter 5 Finite Difference Methods York University
    - Fact-Checking eBook Content of Chapter 5 Finite Difference Methods York University
    - 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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