

# DIFFERENTIAL & INTEGRAL CALCULUS

by

FELICIANO AND UY

## STEP BY STEP SOLUTIONS

### CHAPTER 1 | LIMITS

#### EXERCISE 1.1

1. If  $f(x) = x^2 - 4x$ , find (a)  $f(-5)$  (b)  $f(y^2 + 1)$  (c)  $f(x + \Delta x)$   
(d)  $f(x + 1) - f(x - 1)$

#### Solution:

(a)  $f(-5)$

$$f(x) = x^2 - 4x$$

$$f(-5) = (-5)^2 - 4(-5)$$

$$f(-5) = 25 + 20$$

$$f(-5) = 45$$

(b)  $f(y^2 + 1)$

$$f(x) = x^2 - 4x$$

$$f(y^2 + 1) = (y^2 + 1)^2 - 4(y^2 + 1)$$

$$f(y^2 + 1) = y^4 + 2y^2 + 1 - 4y^2 - 4$$

$$f(y^2 + 1) = y^4 - 2y^2 - 3$$

(c)  $f(x + \Delta x)$

$$f(x) = x^2 - 4x$$

$$f(x + \Delta x) = (x + \Delta x)^2 - 4(x + \Delta x)$$

$$f(x + \Delta x) = (x + \Delta x)[(x + \Delta x) - 4]$$

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**Terry C. Jones**



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## **Table of Contents Calculus Problems With Solutions Pdf**

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

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