

## Chapter 5 Reading Notes

In this chapter, we will learn about applications of the first and second derivative to graphs. Then, we will apply our knowledge of derivatives to solve optimization (maximization and minimization) problems.

### Section 5.1: First Derivatives and Graphs

*By the end of this section, you should be able to:*

- Analyze the graph of a function.
  - Identify the intervals on which a function is increasing or decreasing.
  - Determine the intervals on which the first derivative is positive or negative.
- Determine local extrema and intervals of increasing and decreasing using the first derivative.
  - Identify the critical values of a function.
  - Create a sign chart of the characteristics of the first derivative.
- Match the graph of a function to the graph of its derivative.

In the chapter 3, we learned about the first derivative as the slope of a graph. In this section, we will explore the relationship between the first derivative and the shape of the graph in general.

Here is the basic idea:

1. Calculate the first derivative.
2. Set the derivative equal to 0 and solve for  $x$ . (I.e., locations of horizontal tangent lines.)
3. Identify any values of  $x$  for which the derivative doesn't exist.
4. Use all the  $x$ 's to make a sign chart and note where the derivative is positive or negative.
5. Intervals on which the first derivative is positive or negative correspond to intervals on which the original function is increasing or decreasing.

**Work Example 1.** Compare your answers to the book's solution. What questions do you have?

# Chapter 5 Reading Notes Section 5 1 First Derivatives And

**Tao Wei**



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## **Table of Contents Chapter 5 Reading Notes Section 5 1 First Derivatives And**

1. Understanding the eBook Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - The Rise of Digital Reading Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - 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 Reading Notes Section 5 1 First Derivatives And
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - Personalized Recommendations

- Chapter 5 Reading Notes Section 5 1 First Derivatives And User Reviews and Ratings
- Chapter 5 Reading Notes Section 5 1 First Derivatives And and Bestseller Lists
- 5. Accessing Chapter 5 Reading Notes Section 5 1 First Derivatives And Free and Paid eBooks
  - Chapter 5 Reading Notes Section 5 1 First Derivatives And Public Domain eBooks
  - Chapter 5 Reading Notes Section 5 1 First Derivatives And eBook Subscription Services
  - Chapter 5 Reading Notes Section 5 1 First Derivatives And Budget-Friendly Options
- 6. Navigating Chapter 5 Reading Notes Section 5 1 First Derivatives And eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 5 Reading Notes Section 5 1 First Derivatives And Compatibility with Devices
  - Chapter 5 Reading Notes Section 5 1 First Derivatives And Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - Highlighting and Note-Taking Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - Interactive Elements Chapter 5 Reading Notes Section 5 1 First Derivatives And
- 8. Staying Engaged with Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 5 Reading Notes Section 5 1 First Derivatives And
- 9. Balancing eBooks and Physical Books Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 5 Reading Notes Section 5 1 First Derivatives And
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - Setting Reading Goals Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 5 Reading Notes Section 5 1 First Derivatives And
  - Fact-Checking eBook Content of Chapter 5 Reading Notes Section 5 1 First Derivatives And

- 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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