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

Jianjun Gao

Chapter 5 Reading Notes Section 5 1 First Derivatives And:

   Calculus and Analytic Geometry Charles Henry Edwards,David E. Penney,1986   **Course Notes on the Interpretation of Infrared and Raman Spectra** Dana W. Mayo,Foil A. Miller,Robert W. Hannah,2004-05-24 Feste fl ssige oder Dampfphase reiner Stoff oder L sung Die IR Spektroskopie ist mittlerweile auf Proben aller Art anwendbar und die Probenmenge darf im Pikogrammbereich liegen Wie man insbesondere IR und Raman Spektren gro er Molek le auswertet und interpretiert zeigt dieses in seiner Art einmalige Werk das als Arbeitsanleitung und Nachschlagewerk gleicherma en geeignet ist An vielen Beispielen kann der Leser sich in der Interpretation von Spektren ben Im Anhang findet sich eine ausf hrliche Bibliographie ansprechend geordnet nach 14 Spezialgebieten   **Applied Regression Analysis and Generalized Linear Models** John Fox,2015-03-18 Combining a modern data analytic perspective with a focus on applications in the social sciences the Third Edition of Applied Regression Analysis and Generalized Linear Models provides in depth coverage of regression analysis generalized linear models and closely related methods such as bootstrapping and missing data Updated throughout this Third Edition includes new chapters on mixed effects models for hierarchical and longitudinal data Although the text is largely accessible to readers with a modest background in statistics and mathematics author John Fox also presents more advanced material in optional sections and chapters throughout the book Accompanying website resources containing all answers to the end of chapter exercises Answers to odd numbered questions as well as datasets and other student resources are available on the author s website NEW Bonus chapter on Bayesian Estimation of Regression Models also available at the author s website   **Kant's Thinker** Patricia Kitcher,2011-01-07 Kant s discussion of the relations between cognition and self consciousness lie at the heart of the Critique of Pure Reason in the celebrated transcendental deduction Although this section of Kant s masterpiece is widely believed to contain important insights into cognition and self consciousness it has long been viewed as unusually obscure Many philosophers have tried to avoid the transcendental psychology that Kant employed By contrast Patricia Kitcher follows Kant s careful delineation of the necessary conditions for knowledge and his intricate argument that knowledge requires self consciousness She argues that far from being an exercise in armchair psychology the thesis that thinkers must be aware of the connections among their mental states offers an astute analysis of the requirements of rational thought The book opens by situating Kant s theories in the then contemporary debates about apperception personal identity and the relations between object cognition and self consciousness After laying out Kant s argument that the distinctive kind of knowledge that humans have requires a unified self consciousness Kitcher considers the implications of his theory for current problems in the philosophy of mind If Kant is right that rational cognition requires acts of thought that are at least implicitly conscious then theories of consciousness face a second hard problem beyond the familiar difficulties with the qualities of sensations How is conscious reasoning to be understood Kitcher shows that current accounts of the self ascription of belief have great trouble in explaining the case where subjects know their

reasons for the belief She presents a new Kantian approach to handling this problem In this way the book reveals Kant as a thinker of great relevance to contemporary philosophy one whose allegedly obscure achievements provide solutions to problems that are still with us **Probabilistic Techniques in Analysis** Richard F. Bass,1994-12-16 In recent years there has been an upsurge of interest in using techniques drawn from probability to tackle problems in analysis These applications arise in subjects such as potential theory harmonic analysis singular integrals and the study of analytic functions This book presents a modern survey of these methods at the level of a beginning Ph D student Highlights of this book include the construction of the Martin boundary probabilistic proofs of the boundary Harnack principle Dahlberg s theorem a probabilistic proof of Riesz theorem on the Hilbert transform and Makarov s theorems on the support of harmonic measure The author assumes that a reader has some background in basic real analysis but the book includes proofs of all the results from probability theory and advanced analysis required Each chapter concludes with exercises ranging from the routine to the difficult In addition there are included discussions of open problems and further avenues of research Montana Code Annotated Montana,2016 *Montana Code Annotated* ,2008 **Engineering Record, Building Record and Sanitary Engineer** ,1882 Utah Code Annotated 1953 Utah,1953 **Health Economics** Charles E. Phelps,2017-12-01 Can we really use economic thinking to understand our health care system Health Economics now in its sixth edition not only shows how this is done but also provides the tools to analyze the economic behavior of patients and providers in health care markets Health Economics combines current economic theory recent research and up to date empirical studies into a comprehensive overview of the field Key changes to this edition include additional discussion of the consequences of the Patient Protection and Affordable Care Act PPACA in light of current political changes an extensive discussion of quality measures more discussion of preventive services a new section on drug markets and regulation discussion of Accountable Care Organizations ACOs new references problem sets and an updated companion website with lecture slides Designed for use in upper division undergraduate economics studies the book is suitable for students and lecturers in health economics microeconomics public health policy and practice and health and society It is also accessible to professional students in programs such as public policy public health business and law **The Solicitors' Journal** ,1889 **The Christian Union** Henry Ward Beecher,1881 **Nature** Sir Norman Lockyer,1911 The Pharmaceutical Journal and Pharmacist ,1911 **Pharmaceutical Journal** ,1921 Notes and Queries ,1887 **Modern Physics** Paul Allen Tipler,Ralph Llewellyn,2003 Tipler and Llewellyn s acclaimed text for the intermediate level course not the third semester of the introductory course guides students through the foundations and wide ranging applications of modern physics with the utmost clarity without sacrificing scientific integrity *Forms of Judgments and Orders in the High Court of Justice and Court of Appeal* Sir Henry Wilmot Seton,1901 **The Electrical Review** ,1925 *Calculus, Student Study Guide* Deborah Hughes-Hallett,Andrew M. Gleason,William G. McCallum,Daniel E. Flath,David O. Lomen,David Lovelock,Jeff

Tecosky-Feldman,Thomas W. Tucker,Joseph Thrash,Karen R. Rhea,Andrew Pasquale,Sheldon P. Gordon,Douglas Quinney,Patti Frazer Lock,1999-03-30 A revision of the best selling innovative Calculus text on the market Functions are presented graphically numerically algebraically and verbally to give readers the benefit of alternate interpretations The text is problem driven with exceptional exercises based on real world applications from engineering physics life sciences and economics Revised edition features new sections on limits and continuity limits l Hopital s Rule and relative growth rates and hyperbolic functions

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