CALCULUS 1

Name: _____

Find the derivative of each of the following.

1. $y = 2\sin x - \cos x$

2. $y = \dfrac{\cos^2 x - 3\tan^2 x}{\sec x}$

3. $y = \dfrac{\sin x - \cot^2 x}{\cos x}$

4. $y = \tan(\sec x - \cot x)$

5. $y = 3x + \cos x$

6. $y = \dfrac{\cos x}{1 + \sin x}$

7. $y = \sec 8x$

8. $y = -\sin^2 x$

9. $y = 3\cos(2x^4 - 6x)$

10. $y = \cos(3x + 4)^2$

11. $y = \cos(\sin(7x + 1))$

12. $y = \sec^2(4x^2 + 1)$

13. $\sin y = x$

14. $5x^2 - xy + y = 2x$

15. $\sin(x^2) - 2y^2 = x$

Find the second derivative of each of the following.

16. $y = 2x^2 \sin x - \cos x$

17. $x^2 - y^2 = 12$

18. Find the equation of the tangent to $y = \sin x$ at $x = \pi$.

19. Find the equation of the tangent to $y^2 - 2y = 2x - 1$ at $(1, 3)$.

Calculus Chapter 3

AW Chickering

Calculus Chapter 3:

Learning Basic Calculus Alexander Hahn,1998 This introductory calculus text was developed by the author through his teaching of an honors calculus course at Notre Dame The book develops calculus as well as the necessary trigonometry and analytic geometry from witin the relevant historical context and yet it is not a textbook in the history of mathematics as such The notation is modern and the material is selected to cover the basics of the subject Special emphasis is placed on pedagogy throughout Whhile emphasizing the broad applications of the subject emphasis is placed on the mathematical content of the subject   Understanding the World Around Through Simple Mathematics M. Kemal Atesmen,2011 This book uses different mathematical tools that we learned in high school and in college to solve in detail one hundred everyday problems from credit card interest basal metabolic rate to earthquake magnitude   **Linear Algebra** Tom M. Apostol,2014-08-22 Developed from the author s successful two volume Calculus text this book presents Linear Algebra without emphasis on abstraction or formalization To accommodate a variety of backgrounds the text begins with a review of prerequisites divided into precalculus and calculus prerequisites It continues to cover vector algebra analytic geometry linear spaces determinants linear differential equations and more   **Space Shuttles** Serena Vaughn,AI,2025-03-05 Space Shuttles explores the ambitious Space Shuttle program a cornerstone of space exploration and aerospace engineering This book examines the design operation and lasting impact of these spacecraft which facilitated crucial missions like the deployment of the Hubble Space Telescope The book highlights how the Space Shuttle program despite its complexities significantly advanced our capabilities in orbital mechanics and spacecraft design Did you know that the Space Shuttle program spanned from the 1970s to 2011 leaving a rich legacy of technological innovation The book offers a detailed overview of the Space Shuttle program beginning with fundamental concepts of spaceflight and then delving into the specifics of the Orbiter Solid Rocket Boosters and External Tank It covers mission profiles including satellite deployment and the construction of the International Space Station providing a balanced perspective by addressing both successes and tragedies The book uses technical documentation from NASA mission reports and astronaut accounts to support its analysis offering a unique look into the program s intricate operations The book progresses methodically ensuring accessibility for a broad audience interested in science and technology   *School Mathematics Textbooks In China: Comparative Studies And Beyond* Jianpan Wang,Lianghuo Fan,Binyan Xu,2021-01-28 Our collected work contains mathematics education research papers Comparative studies of school textbooks cover content selection compilation style representation method design of examples and exercises mathematics investigation the use of information technology and composite difficulty level to name a few Other papers included are about representation of basic mathematical thought in school textbooks a study on the compilation features of elementary school textbooks and a survey of the effect of using new elementary school textbooks   *Bombay University Handbook* University of Bombay,1929   Pre-Calculus For Dummies Krystle Rose Forseth,Christopher Burger,Michelle Rose

Gilman,Deborah J. Rumsey,2008-04-07 Offers an introduction to the principles of pre calculus covering such topics as functions law of sines and cosines identities sequences series and binomials   **The American Mathematical Monthly** ,1904   *Sakai OAE Deployment and Management* Max Whitney,2012-06-05 The Sakai Open Academic Environment OAE provides a unique collaboration system for university campuses a social network that helps students discuss class materials pursue research communicate with faculty and discover the risks and benefits of sharing personal information all in a private rather than public forum This example driven guide will get you up to speed on various methods used to deploy customize and manage OAE whether you re an IT specialist in an educational institution or an academic or instructional technologist Learn how to work with OAE s source code to modify key areas such as profiles courses permissions and content You ll soon adapt this network to support the culture and needs of your campus Create research projects and online companions for lecture courses Learn about the range of OAE s public and privacy settings Customize OAE s look and feel including the welcome screen drop down menus and sign up pages Connect to a local LDAP to work with accounts and authentication Install widgets to extend and customize OAE s core functionality Integrate OAE with a web server and backend database Get a checklist for deploying your custom OAE to production   **Nature** Sir Norman Lockyer,1889   *Leaves of Healing* ,1928   **English Mechanic and Mirror of Science** ,1880   The Influence of Computer Programming and Computer Graphics on the Formation of the Derivative and Integral Concepts Fredric W. Tufte,1990   **Government Gazette** ,1890   *Johns Hopkins Hospital Bulletin* Johns Hopkins Hospital,1910   Bulletin of the Johns Hopkins Hospital Johns Hopkins Hospital,1910 Bound with v 52 55 1933 34 is the hospital s supplement Bulletin of the Institute of the History of Medicine Johns Hopkins University v 1 2   **A Short Account of the History of Mathematics** Walter William Rouse Ball,1888   **Science and Industry** Institute of Science and Industry (Australia),1920   **Mathematics** Abe Mizrahi,Michael Sullivan,2000 Making Math Relevant to the Real World The seventh edition lives up to its reputation as a clearly written comprehensive finite mathematics and calculus text Students will find a greater emphasis on real world applications from the fields of business and social sciences making the material relevant to their studies From the increased use of boxed formulas to informative explanations of examples Mizrahi and Sullivan make this edition even more accessible to students Hallmark Features The comprehensive and readable coverage has received praise through six editions The text is flexibly organized A flowchart in the preface shows instructors how to sequence chapters to meet specific needs Well graded exercise sets at the end of each section help students gain a better understanding of the material End of chapter study questions for review include true false and fill in the blank questions with answers An abundance of realistic examples are provided that gradually increase in difficulty to develop conceptual understanding Mathematical questions from CPA CMA and actuary exams show students the relevance of the material Also available by Mizrahi and Sullivan Finite Mathematics An Applied Approach 8 E 0 471 32202 4   *The Electrical Review* ,1911

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