

CALCULUS I

Name: _____

CHAPTER 10 EXERCISES 10.1

Find the derivative of each of the following.

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

2. $y = \frac{\cos^2 x + 3\sin^2 x}{\cos x}$

3. $y = \frac{\sin x + \cos^2 x}{\cos x}$

4. $y = \tan x (\cos x + \sin x)$

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

6. $y = \frac{\cos x}{8 + \cos x}$

7. $y = \sec 3x$

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

9. $y = 3\sec(2x^2 + 4x)$

10. $y = \cos(2x + \pi)$

11. $y = \cos(\pi/2 + 2x)$

12. $y = \cos^2(-4x^2 + 8)$

13. $\sin y = x$

14. $2x^2 + \pi y = 2\pi$

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

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 $y^2 = 2x + 2x - 1$ at $(7, 2)$.

Calculus Chapter 3

Abe Mizrahi, Michael Sullivan



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 within 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 While 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, 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

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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

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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. Tuft, 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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