

CALCULUS I

Name: _____

CHAPTER 10: TRIGONOMETRIC DERIV

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. $y = 3x + \cos x$

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

7. $y = \sec 8x$

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

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

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

11. $y = \cos(\pi(2x + 1))$

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

13. $\sin y = x$

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

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

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

M. Kemal Atesmen



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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

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

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

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

Rigorous Software Engineering for Service-Oriented Systems Martin Wirsing, Matthias Hölzl, 2011-05-09 Service oriented computing is a paradigm for developing software addressing key contemporary IT challenges The result of the SENSORIA project this book presents a novel and comprehensive approach to designing analyzing and implementing SO applications

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

Nature Sir Norman Lockyer, 1900

Recommendations of the Educational Committee. 6th Ed., 1927 Actuarial Society of America. Educational Committee, 1927 **An Elementary Course in the Integral Calculus** Daniel Alexander Murray, 1898 *Engineering News*, 1893 **Computer and Program Organization** University of Michigan. Engineering Summer Conferences, 1967
Science and Industry Institute of Science and Industry (Australia), 1920 Nature, 1889 The Journal of Philosophy, 1917 Covers topics in philosophy psychology and scientific methods Vols 31 include A Bibliography of philosophy 1933
The Journal of Philosophy, Psychology and Scientific Methods, 1917 Journal of the Royal Statistical Society, 2004 Series A of the journal Statistics in Society is essentially a journal of general statistical interest Publishes papers whose appeal lies in their subject matter rather than their technical statistical contents Medical social educational legal demographic and governmental issues are of particular concern **Humanistic Logic for the Mind in Action** Oliver Leslie Reiser, 1930 *The Central*, 1930

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