

Directions: Answer each question below by providing enough work to defend your answer. Partial Credit will be given depending on the amount of work given. NO CALCULATORS WILL BE USED ON THIS TEST.



1. (10pts) Find the equation of the tangent line for the curve at the given point.

$$x^2 + xy + y^2 = 7 \quad (2, 1)$$

$$2x + x\left(\frac{dy}{dx}\right) + y(1) + 2y\left(\frac{dy}{dx}\right) = 0$$

$$x\left(\frac{dy}{dx}\right) + 2y\left(\frac{dy}{dx}\right) = -2x - y$$

$$\frac{\frac{dy}{dx}(x + 2y)}{x + 2y} = \frac{-2x - y}{x + 2y}$$

$$\frac{dy}{dx} = \frac{-2x - y}{x + 2y} \stackrel{\text{plug in}}{=} \frac{-2(2) - 1}{(2) + 2(1)} = \frac{-4 - 1}{2 + 2} = \frac{-5}{4}$$

$$y - 1 = \frac{-5}{4}(x - 2)$$

$$y - 1 = \frac{-5}{4}x + \frac{5}{2} + 1 = \boxed{y = -\frac{5}{4}x + \frac{7}{2}}$$

2. (10pts) Find the derivative of the following function. Simplify where possible.

$$f(x) = \ln(4x^3 - e^{3x} - 2)$$

$$f'(x) = \frac{1}{4x^3 - e^{3x} - 2} (12x^2 - 3e^{3x})$$

$$f'(x) = \frac{12x^2 - 3e^{3x}}{4x^3 - e^{3x} - 2}$$

$$\boxed{f'(x) = \frac{3(4x^2 - e^{3x})}{4x^3 - e^{3x} - 2}}$$

Mississippi State Calculus Syllabus

AW Rasmussen



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Syllabus of a Course of Chemical Lectures Delivered at Guy's Hospital. Ms. Notes Arthur Aikin, 1839 **Calculus for Business, Economics, Life Sciences, and Social Sciences** Raymond A. Barnett, Michael R. Ziegler, Karl E. Byleen, 1996 This text covers calculus with an emphasis on cross discipline principles and practices Designed to be student friendly and accessible it develops a thorough functional understanding of mathematical concepts in preparation for their application in other areas Coverage concentrates on concepts and ideas followed immediately by developing computational skills ideas and problem solving **Differential Calculus & Integral Calculus (Mathematics) (English Edition)** Dr. Praveen Saraswat, Dr. Rudraman, 2021-01-01 Buy Latest e books on Differential Calculus Integral Calculus for B Sc 1st Sem Maths Boo especially designed for U P State universities by Thakur Publication Annual Catalog Mississippi Agricultural and Mechanical College, Mississippi State College, Mississippi State University, 1904 **(Mathematics) Calculus & Geometry** Dr. Piyus Raj Prabhat, Dr. Harjit Kumar, 2024-01-01 Buy Latest Mathematics Calculus Geometry e Book in English Edition for B Sc 2nd Semester Bihar State By Thakur publication **Syllabus**, 1996 **Resources in Education**, 1997 **The Graphic Syllabus and the Outcomes Map** Linda B. Nilson, 2009-12-22 This book shows college instructors how to communicate their course organization to students in a graphic syllabus a one page diagram flowchart or concept map of the topical organization and an outcomes map a one page flowchart of the sequence of student learning objectives and outcomes from the foundational through the mediating to the ultimate It also documents the positive impact that graphics have on student learning and cautions readers about common errors in designing graphic syllabi **Report of Proceedings, New Jersey State High School Conference** New Jersey State High School Conference, 1927 **Changing the Culture** Naomi Fisher, Harvey Keynes, 1995 This volume is an outgrowth of a series of programs organized by the Mathematicians and Education Reform MER Network between 1990 and 1993 These programs explored the ways in which the mathematical sciences community has responded to educational challenges Mathematicians who had made a serious commitment to educational reform served as role models inspiring others to contribute their efforts to this important work The discussions raised many questions and highlighted many insights about the nature of educational reform and how the mathematics research community can contribute to it The papers in this volume present perspectives on the future of these efforts varied examples of how individual mathematicians have become involved in educational reform and case studies of how the community is responding to the need for reform Viewing the mathematics culture through the prism of his or her own experience and encounters each author contributes a valuable piece for the reader to consider in trying to envision what the large picture will be as mathematics education continues to evolve **MAA Notes**, 1983 *Studies of State Departments of Education* Alina Marie Lindegren, Edith Anna Lathrop, Frederick James Kelly, Henry Ridgely Evans, Lulu B Anderson, United States. Office of Education, Benjamin William Frazier, John Hamilton McNeely, Ward W Keesecker, Ella Burgess Ratcliffe, 1940

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The Mathematics Teacher, 1947 *A History of Mathematics in the United States and Canada* David E. Zitarelli, Della Dumbaugh, Stephen F. Kennedy, 2022-07-28 This is the first truly comprehensive and thorough history of the development of a mathematical community in the United States and Canada This second volume starts at the turn of the twentieth century with a mathematical community that is firmly established and traces its growth over the next forty years at the end of which the American mathematical community is pre eminent in the world In the preface to the first volume of this work Zitarelli reveals his animating philosophy I find that the human factor lends life and vitality to any subject History of mathematics in the Zitarelli conception is not just a collection of abstract ideas and their development It is a community of people and practices joining together to understand perpetuate and advance those ideas and each other Telling the story of mathematics means telling the stories of these people their accomplishments and triumphs the institutions and structures they built their interpersonal and scientific interactions and their failures and shortcomings One of the most hopeful developments of the period 1900 1941 in American mathematics was the opening of the community to previously excluded populations Increasing numbers of women were welcomed into mathematics many of whom including Anna Pell Wheeler Olive Hazlett and Mayme Logsdon are profiled in these pages Black mathematicians were often systemically excluded during this period but in spite of the obstacles Elbert Frank Cox Dudley Woodard David Blackwell and others built careers of significant accomplishment that are described here The effect on the substantial community of European immigrants is detailed through the stories of dozens of individuals In clear and compelling prose Zitarelli Dumbaugh and Kennedy spin a tale accessible to experts general readers and anyone interested in the history of science in North America

Bulletin Kansas Association of Teachers of Mathematics, 1927 **The Educational Times, and Journal of the College of Preceptors**, 1908 Educational Times, 1896 **Clifford Algebras and their Applications in Mathematical Physics** Rafal Ablamowicz, Bertfried Fauser, 2012-12-06 The plausible relativistic physical variables describing a spinning charged and massive particle are besides the charge itself its Minkowski four position X its relativistic linear four momentum P and also its so called Lorentz four angular momentum E_0 the latter forming four translation invariant part of its total angular four momentum M Expressing these variables in terms of Poincare covariant real valued functions defined on an extended relativistic phase space $2+7J$ means that the mutual Poisson bracket relations among the total angular momentum functions M_{ab} and the linear momentum functions p_a have to represent the commutation relations of the Poincare algebra On any such an extended relativistic phase space as shown by Zakrzewski $2+7$ the natural Poisson bracket relations $1+1$ imply that for the splitting of the total angular momentum into its orbital and its spin part $1+2$ one necessarily obtains $1+3$ On the other hand it is always possible to shift translate the commuting see $1+1$ four position x_a

by a four vector X_{α} so that the total angular four momentum splits instead into a new orbital and a new Pauli Lubanski spin part in such a way that However as proved by Zakrzewski the so defined new shifted four a position functions X must fulfill the following Poisson bracket relations 1 **Education Outlook** ,1898

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