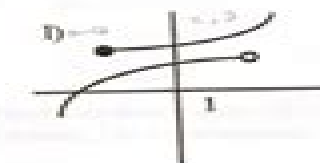
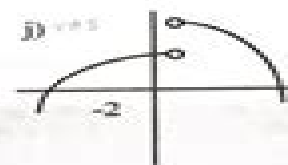
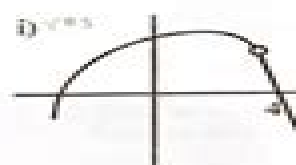
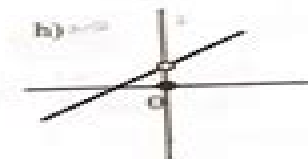
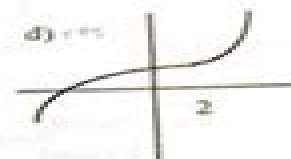
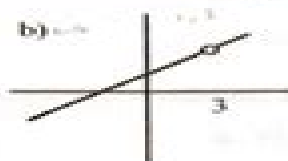
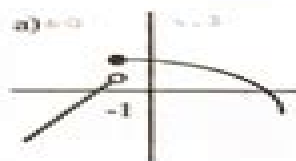


## Continuity and Differentiability - Homework

1. In the following graphs determine if the function  $f(x)$  is continuous at the marked value of  $c$ , and if not, determine for which of the 3 rules of continuity the function fails.



2. Find the value of  $x$  where the function is discontinuous.

a.  $f(x) = x^3 + 3^x$

$x = -8$

b.  $f(x) = \frac{5}{x^2 - 81}$

$x = 9, -9$

c.  $f(x) = \frac{x^2 + 2x - 24}{x^2 - 36}$

$x = 6, -6$

d.  $f(x) = \tan x$

$x = \frac{\pi}{2} + n\pi$

$n \in \mathbb{Z}$

3. Find whether the function is continuous at the value where the rule for the function changes.

a.  $f(x) = \begin{cases} 8 - x^2, & x < 2 \\ 6 - x, & x \geq 2 \end{cases}$

$c = 2$  continuous

b.  $f(x) = \begin{cases} 4 - x^2, & x < 1 \\ 1 + x, & x \geq 1 \end{cases}$

$c = 1$  continuous

c.  $f(x) = \begin{cases} 2^x, & x < 3 \\ 10 - x, & x \geq 3 \end{cases}$

$c = 3$  continuous

# Continuity And Differentiability Homework Answers

**Ed Dubinsky**



## **Continuity And Differentiability Homework Answers:**

**Single Variable Calculus** Gerald L. Bradley,1999      *Linear Programming and Generalizations* Eric V.

Denardo,2011-07-25 This book on constrained optimization is novel in that it fuses these themes use examples to introduce general ideas engage the student in spreadsheet computation survey the uses of constrained optimization investigate game theory and nonlinear optimization link the subject to economic reasoning and present the requisite mathematics Blending these themes makes constrained optimization more accessible and more valuable It stimulates the student s interest quickens the learning process reveals connections to several academic and professional fields and deepens the student s grasp of the relevant mathematics The book is designed for use in courses that focus on the applications of constrained optimization in courses that emphasize the theory and in courses that link the subject to economics      **A Guided Tour of**

**Differential Equations** Alexandra Skidmore,Margie Hale,1998 This ODE workbook develops more than 50 projects that require a CAS Some are designed to get the student into the right mode of thinking for that topic be it solutions integrating factors linear operations and so forth The syntax for using Maple Mathematica and Derive are provided      **Laboratories for Calculus 1 Using Mathematica** Margret H. Höft,1992      **Using Writing to Teach Mathematics** Andrew Sterrett,1990

This collection of essays is an outgrowth of the widespread interest shown in sessions of contributed papers on writing given at the 1988 and 1989 Annual Meetings of the MAA Many of the 30 authors of the essays included in this volume participated in those sessions and each has considerable experience in requiring students to write about mathematics      Calculus from

Graphical, Numerical, and Symbolic Points of View Arnold Ostebee,Paul Zorn,2002 This flexible series offers instructors a true balance of traditional and conceptual approaches to calculus for math science and engineering majors The Second Edition continues to focus on conceptual understanding as its primary goal and combines a variety of approaches and viewpoints to help students achieve this understanding In addition to providing a readable tone that appeals to students and supports independent work the authors present a balance of traditional theorems and proofs along with conceptually driven examples and exercises featuring graphical numerical and symbolic points of view In addition the text offers a wealth of diverse well graded exercises including some more challenging problems      **Research in Collegiate Mathematics**

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teaching and learning This series is published in cooperation with the Mathematical Association of America MAA Notes,1983 *A Course in Mathematical Methods for Physicists* Russell L. Herman,2013-12-04 Based on the author s junior level undergraduate course this introductory textbook is designed for a course in mathematical physics Focusing on the physics of oscillations and waves A Course in Mathematical Methods for Physicists helps students understand the mathematical techniques needed for their future studies in physics It takes a bottom up approach that emphasizes physical applications of the mathematics The book offers A quick review of mathematical prerequisites proceeding to applications of differential equations and linear algebra Classroom tested explanations of complex and Fourier analysis for trigonometric and special functions Coverage of vector analysis and curvilinear coordinates for solving higher dimensional problems Sections on nonlinear dynamics variational calculus numerical solutions of differential equations and Green s functions **The Effect of Computer and Calculator Graphics on Students' Ability to Mentally Construct Calculus Concepts** Marian Joan Ellison,1993 **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,2007 **The Mathematics Educator** ,2009 **Comparing Writing with Interviews and Exams as Assessments of Students' Understanding of the Concept of the Derivative** Gwen Laura Fisher,2001 Continuity and Differentiation Wieslawa J. Kaczor,2001

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