Continuity and Differentiability - Homework

 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.



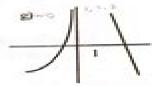




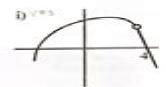


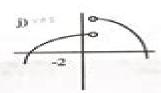
















Find the value of x where the function is discontinuous.

a.
$$f(x) = x^3 + 3^2$$

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

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b.
$$f(x) = \frac{5}{x^2 - 81}$$
 c. $f(x) = \frac{x^2 + 2x - 24}{x^2 - 36}$

N 18 1 - 5

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

P. S. W.

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

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

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

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

Continuity And Differentiability Homework

Terence Tao

Continuity And Differentiability Homework:

Basic Analysis I James K. Peterson, 2020-05-13 Basic Analysis I Functions of a Real Variable is designed for students who have completed the usual calculus and ordinary differential equation sequence and a basic course in linear algebra This is a critical course in the use of abstraction but is just first volume in a sequence of courses which prepare students to become practicing scientists This book is written with the aim of balancing the theory and abstraction with clear explanations and arguments so that students who are from a variety of different areas can follow this text and use it profitably for self study It can also be used as a supplementary text for anyone whose work requires that they begin to assimilate more abstract mathematical concepts as part of their professional growth Features Can be used as a traditional textbook as well as for self study Suitable for undergraduate mathematics students or for those in other disciplines requiring a solid grounding in abstraction Emphasises learning how to understand the consequences of assumptions using a variety of tools to provide the proofs of propositions The Foundations of Real Analysis Richard Mikula, 2015-10-20 This textbook covers the subject of real analysis from the fundamentals up through beginning graduate level It is appropriate as an introductory course text or a review text for graduate qualifying examinations Some special features of the text include a thorough discussion of transcendental functions such as trigonometric logarithmic and exponential from power series expansions deducing all important functional properties from the series definitions The text is written in a user friendly manner and includes full solutions to all assigned exercises throughout the text Calculus for Cognitive Scientists James K. Peterson, 2016-02-04 This book provides a self study program on how mathematics computer science and science can be usefully and seamlessly intertwined Learning to use ideas from mathematics and computation is essential for understanding approaches to cognitive and biological science As such the book covers calculus on one variable and two variables and works through a number of interesting first order ODE models It clearly uses MatLab in computational exercises where the models cannot be solved by hand and also helps readers to understand that approximations cause errors a fact that must always be kept in mind

Single Variable Calculus Gerald L. Bradley,1999 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 Analysis I Terence Tao,2023-02-22 This is the first book of a two volume textbook on real analysis Both the volumes Analysis I and Analysis II are intended for honors undergraduates who have already been exposed to calculus The emphasis is on rigor and foundations The material starts at the very beginning the construction of number systems and set theory Analysis I Chaps 1 5 then on to the basics of analysis such as limits series continuity differentiation and Riemann integration Analysis I Chaps 6 11 on Euclidean spaces and Analysis II Chaps 1 3 on metric spaces through power series several variable calculus and Fourier

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sources provide motivation in the words of the original discoverers of new mathematics draw attention to subtleties encourage reflection on today s paradigms and enhance students ability to participate equally regardless of their background These beautifully written primary source projects that adopt an inquiry approach are rich in features lacking in modern textbooks Prompted by the study of historical sources students will grapple with uncertainties ask questions interpret conjecture and compare multiple perspectives resulting in a unique and vivid guided learning experience David Pengelley Oregon State University **MAA Notes** ,1983 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 Laboratories for Calculus 1 Using Mathematica Margret H. Höft, 1992 The Effect of Computer and Calculator Graphics on Students' Ability to Mentally Construct Calculus Concepts Marian Joan Ellison, 1993

Calculus and Its Applications Larry Joel Goldstein, David C. Lay, David I. Schneider, 1980 This extremely readable highly regarded and widely adopted text present innovative ways for applying calculus to real world situations in the business economics life science and social science disciplines The text's straightforward engaging approach fosters the growth of both mathematical maturity and an appreciation for the usefulness of mathematics. The authors tried and true formula pairing substantial amounts of graphical analysis and informal geometric proofs with an abundance of hands on exercizes has proven to be tremendously successful Functions derivatives applications of the derivative techniques of differentiations exponential and natural logarithm functions definite integral variables trigonometric functions integration differential equations Taylor polynomials and probability For individuals interested in an introduction to calculus applications Abstracts of Papers Presented to the American Mathematical Society, 2007 The Mathematics Educator The Conference on Computers in Physics Instruction Edward F. Redish, John S. Risley, 1990 Computers are .2009 revolutionizing activities in all areas of life Physics researchers accustomed to being at the forefront of technology have been deeply affected by the computer revolution This effect has serious implications for what is taught and how it is taught in the physics classroom This conference was organized to allow physics teachers and software developers in physics education to come together and see the state of the art in using computers to teach physics The conference included 39 invited lectures and 122 contributed presentations It introduced a number of innovations in the hope of increasing interactions and stimulating future contacts This document contains the text of the invited and contributed papers organized as follows 1 The

Computer's Impact on the Physics Curriculum 2 Physics Computer Simulations 3 Computers in the Physics Laboratory 4
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The American Mathematical Monthly, 1979 Includes articles as well as notes and other features about mathematics and the profession Continuity and Differentiation Wieslawa J. Kaczor, 2001

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