

Tutorial Sheet: Multivariable Calculus

1. Examine if the limits as $(x, y) \rightarrow (0, 0)$ exist?

$$(a) \begin{cases} \frac{x^2 y^2}{x^2 + y^2} & x \neq y \\ 0 & x = y \end{cases} \quad (b) \ xy \left(\frac{x^2 - y^2}{x^2 + y^2} \right) \quad (c) \begin{cases} x \sin \frac{1}{x} + y \sin \frac{1}{y} & xy \neq 0 \\ 0 & xy = 0 \end{cases}$$

$$(d) \frac{\sin(xy)}{x^2 + y^2}$$

2. Examine the continuity of the following functions

$$(a) \begin{cases} \frac{xy^2}{x^2 + y^2} & (x, y) \neq (0, 0) \\ 0 & \text{otherwise} \end{cases} \quad (b) \begin{cases} x^2 + y^2, & x^2 + y^2 \leq 1 \\ 0, & \text{otherwise} \end{cases}$$

$$(c) \begin{cases} \frac{\sin^2(x - y)}{|x| + |y|} & (x, y) \neq (0, 0) \\ 0 & \text{otherwise} \end{cases} \quad (d) \begin{cases} \frac{x^2 y^2}{x^2 y^2 + (x - y)^2} & (x, y) \neq (0, 0) \\ 0 & \text{otherwise} \end{cases}$$

3. Discuss the differentiability of the following functions at $(0, 0)$

$$(a) f(x, y) = \begin{cases} x \sin \frac{1}{x} + y \sin \frac{1}{y} & xy \neq 0 \\ \sin y & xy = 0 \end{cases} \quad (b) \begin{cases} \frac{\sqrt{x^2 + y^2}}{\sqrt{x^2 + y^2}} & x^2 + y^2 \neq 0 \\ 0 & x = y = 0 \end{cases}$$

$$(c) \begin{cases} \frac{x^2 y^2}{x^2 + y^2} & x^2 + y^2 \neq 0 \\ 0 & x = 0, y = 0 \end{cases}$$

4. Let $f(x, y) = \frac{1}{|y|} \sqrt{x^2 + y^2}$, $y \neq 0$ and $f(x, 0) = 0$. Show that f has all directional derivatives at $(0, 0)$ but it is not differentiable at $(0, 0)$.

5. Let $f(x, y) = |x| - |y|$. Is f continuous at $(0, 0)$? Which directional derivatives exist at $(0, 0)$? (The answer is yes.)

Tutorial Calculus Multivariable

Karen Pao, Frederick Soon



Tutorial Calculus Multivariable:

An Illustrative Guide to Multivariable and Vector Calculus Stanley J. Miklavcic, 2020-02-17 This textbook focuses on one of the most valuable skills in multivariable and vector calculus visualization. With over one hundred carefully drawn color images, students who have long struggled picturing, for example, level sets or vector fields will find these abstract concepts rendered with clarity and ingenuity. This illustrative approach to the material covered in standard multivariable and vector calculus textbooks will serve as a much needed and highly useful companion. Emphasizing portability, this book is an ideal complement to other references in the area. It begins by exploring preliminary ideas such as vector algebra, sets, and coordinate systems before moving into the core areas of multivariable differentiation and integration and vector calculus. Sections on the chain rule for second derivatives, implicit functions, PDEs, and the method of least squares offer additional depth. Ample illustrations are woven throughout. Mastery Checks engage students in material on the spot, while longer exercise sets at the end of each chapter reinforce techniques. **An Illustrative Guide to Multivariable and Vector Calculus** will appeal to multivariable and vector calculus students and instructors around the world who seek an accessible visual approach to this subject. Higher level students called upon to apply these concepts across science and engineering will also find this a valuable and concise resource.

Student's Guide to Basic Multivariable Calculus Karen Pao, Frederick Soon, 2013-06-29 For use with Basic Multivariable Calculus

Basic Multivariable Calculus Jerrold E. Marsden, Anthony Tromba, Alan Weinstein, 2000-10-31 Basic Multivariable Calculus fills the need for a student oriented text devoted exclusively to the third semester course in multivariable calculus. In this text, the basic algebraic, analytic, and geometric concepts of multivariable and vector calculus are carefully explained with an emphasis on developing the student's intuitive understanding and computational technique. A wealth of figures supports geometrical interpretation, while exercise sets, review sections, practice exams, and historical notes keep the students active in and involved with the mathematical ideas. All necessary linear algebra is developed within the text, and the material can be readily coordinated with computer laboratories. Basic Multivariable Calculus is the product of an extensive writing, revising, and class testing collaboration by the authors of Calculus III, Springer Verlag, and Vector Calculus, W H Freeman Co. Incorporating many features from these highly respected texts, it is both a synthesis of the authors' previous work and a new and original textbook.

Multivariable Calculus James Stewart, 2003 Stewart's CALCULUS EARLY TRANSCENDENTALS Fifth Edition has the mathematical precision, accuracy, clarity of exposition, and outstanding examples and problem sets that have characterized the first four editions. Stewart retains the focus on problem solving and the pedagogical system that has made the book a favorite of students and instructors in a wide variety of colleges and universities throughout the world. The structure of CALCULUS EARLY TRANSCENDENTALS Fifth Edition remains largely unchanged, the sole exception being that the review of inverse trigonometric functions has been moved from an appendix to Section 1.6. Stewart has made hundreds of small improvements.

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Teaching Mathematics in Colleges and Universities Solomon Friedberg,2001 Progress in mathematics frequently occurs first by studying particular examples and then by generalizing the patterns that have been observed into far reaching theorems Similarly in teaching mathematics one often employs examples to motivate a general principle or to illustrate its use This volume uses the same idea in the context of learning how to teach By analyzing particular teaching situations one can develop broadly applicable teaching skills useful for the professional mathematician These teaching situations are the Case Studies of the title Just as a good mathematician seeks both to understand the details of a particular problem and to put it in a broader context the examples presented here are chosen to offer a serious set of detailed teaching issues and to afford analysis from a broad perspective Each case raises a variety of pedagogical and communication issues that may be explored either individually or in a group facilitated by a faculty member Teaching notes for such a facilitator are included for each Case in the Faculty Edition The methodology of Case Studies is widely used in areas such as business and law The consideration of the mathematics cases presented here will help readers to develop teaching skills for their own classrooms

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Maple V by Example Martha L. Abell,James P. Braselton,1994 A carefully designed tutorial geared

to assist a wide range of users The presentation focuses on the most frequently used features of Maple V and it addresses popular applications of mathematics within each of these areas

The Latest and Best of TESS, 1991

The Maple V Handbook Martha L. Abell, James P. Braselton, 1994 An exhaustive reference work and a valuable addition to every Maple V owner's library Each of the more than 2 500 functions in this guide are covered in alphabetical order with a separate section devoted to graphics related functions Every listing includes an explanation of functionality annotated examples and numerous cross references

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