CALCULUS

DIFFERENTIAL CALCULUS

LIMIT OF A FUNCTION

➤ **Limit[$f[x]$, $x \to a$, Direction $\to 1$]** computes the left hand limit of the function $f(x)$ at the point $x = a$ i.e. the value of $\lim_{x \to a^-} f(x)$ will be computed.
   Examples:
   i)   Limit[$(x\^5 - 32)/(x\^3 - 8)$, $x \to 2$, Direction $\to 1$]
          Ans: $\frac{20}{3}$.
   ii) $f[x\_] := 1/x$
          Limit[$f[x]$, $x \to 0$, Direction $\to 1$]
          Ans: $-\infty$.

➤ **Limit[$f[x]$, $x \to a$, Direction $\to -1$]** computes the right hand limit of the function $f(x)$ at the point $x = a$ i.e. the value of $\lim_{x \to a^+} f(x)$ will be computed.
   Examples:
   i)   Limit[$(x^5 - 32)/(x^3 - 8)$, $x \to 2$, Direction $\to -1$]
          Ans: $\frac{20}{3}$.
   ii) $f[x\_] := 1/x$
          Limit[$f[x]$, $x \to 0$, Direction $\to -1$]
          Ans: $+\infty$.

➤ **Limit[$f[x]$, $x \to a$]** computes the limit of the function $f(x)$ at the point $x = a$ i.e. the value of $\lim_{x \to a} f(x)$ will be computed.
   Examples:
   i)   Limit[$(x\^5 - 32)/(x\^3 - 8)$, $x \to 2$]
          Ans: $\frac{20}{3}$.
   ii) $f[x\_] := 1/x$
          Limit[$f[x]$, $x \to 0$]
          Ans: ∞.

Problem-1: Suppose $f(x) = \frac{x^5 - 32}{x^3 - 8}$ is a function.

   i)   Find the left hand limit of the function $f(x)$ at $x = 2$ i.e. find $\lim_{x \to 2^-} f(x)$
   ii)   Find the right hand limit of the function $f(x)$ at $x = 2$ i.e. find $\lim_{x \to 2^+} f(x)$

Calculus Using Mathematica

Arthur G. Sparks,John Warner Davenport,James P. Braselton

Calculus Using Mathematica:

   Calculus Using Mathematica K.D. Stroyan,2014-05-10 Calculus Using Mathematica is intended for college students taking a course in calculus It teaches the basic skills of differentiation and integration and how to use Mathematica a scientific software language to perform very elaborate symbolic and numerical computations This is a set composed of the core text science and math projects and computing software for symbolic manipulation and graphics generation Topics covered in the core text include an introduction on how to get started with the program the ideas of independent and dependent variables and parameters in the context of some down to earth applications formulation of the main approximation of differential calculus and discrete dynamical systems The fundamental theory of integration analytical vector geometry and two dimensional linear dynamical systems are elaborated as well This publication is intended for beginning college students

   Vector Calculus Using Mathematica Second Edition Steven Tan,2020-07-11 An introduction to vector calculus with the aid of Mathematica computer algebra system to represent them and to calculate with them The unique features of the book which set it apart from the existing textbooks are the large number of illustrative examples It is the author s opinion a novice in science or engineering needs to see a lot of examples in which mathematics is used to be able to speak the language All these examples and all illustrations can be replicated and used to learn and discover vector calculus in a new and exciting way Reader can practice with the solutions and then modify them to solve the particular problems assigned This should move up problem solving skills and to use Mathematica to visualize the results and to develop a deeper intuitive understanding Usually visualization provides much more insight than the formulas themselves The second edition is an addition of the first Two new chapters on line integrals Green s Theorem Stokes s Theorem and Gauss s Theorem have been added

   Multivariable Calculus and Mathematica® Kevin R. Coombes,Ronald L. Lipsman,Jonathan M. Rosenberg,2012-12-06 One of the authors stated goals for this publication is to modernize the course through the integration of Mathematica Besides introducing students to the multivariable uses of Mathematica and instructing them on how to use it as a tool in simplifying calculations they also present intoductions to geometry mathematical physics and kinematics topics of particular interest to engineering and physical science students In using Mathematica as a tool the authors take pains not to use it simply to define things as a whole bunch of new gadgets streamlined to the taste of the authors but rather they exploit the tremendous resources built into the program They also make it clear that Mathematica is not algorithms At the same time they clearly see the ways in which Mathematica can make things cleaner clearer and simpler The problem sets give students an opportunity to practice their newly learned skills covering simple calculations with Mathematica simple plots a review of one variable calculus using Mathematica for symbolic differentiation integration and numberical integration They also cover the practice of incorporating text and headings into a Mathematica notebook A DOS formatted diskette accompanies the printed work containing both Mathematica 2 2 and 3 0 version notebooks as well as sample examination problems for students This

supplementary work can be used with any standard multivariable calculus textbook It is assumed that in most cases students will also have access to an introductory primer for Mathematica **Calculus Using Mathematica** K. D. Stroyan,1993-08-01 **Exploring Calculus** Crista Arangala,2016-08-19 This text is meant to be a hands on lab manual that can be used in class every day to guide the exploration of the theory and applications of differential and integral calculus For the most part labs can be used individually or in a sequence Each lab consists of an explanation of material with integrated exercises Some labs are split into multiple subsections and thus exercises are separated by those subsections The exercise sections integrate problems technology Mathematica R visualization and Mathematica CDFs that allow students to discover the theory and applications of differential and integral calculus in a meaningful and memorable way Employs Mathematica to calculate and explore concepts and theories of calculus Uses engaging labs to inspire learning Includes many applications to a variety of fields that can promote research projects User friendly approach that can be used for classroom work or independent exploratory learning Multivariable Calculus with Mathematica Robert P. Gilbert,Michael Shoushani,Yvonne Ou,2020-11-24 Multivariable Calculus with Mathematica is a textbook addressing the calculus of several variables Instead of just using Mathematica to directly solve problems the students are encouraged to learn the syntax and to write their own code to solve problems This not only encourages scientific computing skills but at the same time stresses the complete understanding of the mathematics Questions are provided at the end of the chapters to test the student s theoretical understanding of the mathematics and there are also computer algebra questions which test the student s ability to apply their knowledge in non trivial ways Features Ensures that students are not just using the package to directly solve problems but learning the syntax to write their own code to solve problems Suitable as a main textbook for a Calculus III course and as a supplementary text for topics scientific computing engineering and mathematical physics Written in a style that engages the students interest and encourages the understanding of the mathematical ideas **Integral Calculus and Differential Equations Using Mathematica** Cesar Perez Lopez,2016-01-16 This book provides all the material needed to work on Integral Calculus and Differential Equations using Mathematica It includes techniques for solving all kinds of integral and its applications for calculating lengths of curves areas volumes surfaces of revolution With Mathematica is possible solve ordinary and partial differential equations of various kinds and systems of such equations either symbolically or using numerical methods Euler s method the Runge Kutta method It also describes how to implement mathematical tools such as the Laplace transform orthogonal polynomials and special functions Airy and Bessel functions and find solutions of differential equations in partial derivatives The main content of the book is as follows PRACTICAL INTRODUCTION TO MATHEMATICA 1 1 CALCULATION NUMERIC WITH MATHEMATICA 1 2 SYMBOLIC CALCULATION WITH MATHEMATICA 1 3 GRAPHICS WITH MATHEMATICA 1 4 MATHEMATICA AND THE PROGRAMMING INTEGRATION AND APPLICATIONS 2 1 INDEFINITE INTEGRALS 2 1 1 Inmediate integrals 2 2 INTEGRATION BY SUBSTITUTION OR CHANGE OF VARIABLES

2 2 1 Exponential logarithmic hyperbolic and inverse circular functions 2 2 2 Irrational functions binomial integrals 2 3 INTEGRATION BY PARTS 2 4 INTEGRATION BY REDUCTION AND CYCLIC INTEGRATION DEFINITE INTEGRALS CURVE ARC LENGTH AREAS VOLUMES AND SURFACES OF REVOLUTION IMPROPER INTEGRALS 3 1 DEFINITE INTEGRALS 3 2 CURVE ARC LENGTH 3 3 THE AREA ENCLOSED BETWEEN CURVES 3 4 SURFACES OF REVOLUTION 3 5 VOLUMES OF REVOLUTION 3 6 CURVILINEAR INTEGRALS 3 7 IMPROPER INTEGRALS 3 8 PARAMETER DEPENDENT INTEGRALS 3 9 THE RIEMANN INTEGRAL INTEGRATION IN SEVERAL VARIABLES AND APPLICATIONS AREAS AND VOLUMES DIVERGENCE STOKES AND GREEN S THEOREMS 4 1 AREAS AND DOUBLE INTEGRALS 4 2 SURFACE AREA BY DOUBLE INTEGRATION 4 3 VOLUME CALCULATION BY DOUBLE INTEGRALS 4 4 VOLUME CALCULATION AND TRIPLE INTEGRALS 4 5 GREEN S THEOREM 4 6 THE DIVERGENCE THEOREM 4 7 STOKES THEOREM FIRST ORDER DIFFERENTIAL EQUATIONS SEPARATES VARIABLES EXACT EQUATIONS LINEAR AND HOMOGENEOUS EQUATIONS NUMERIACAL METHODS 5 1 SEPARATION OF VARIABLES 5 2 HOMOGENEOUS DIFFERENTIAL EQUATIONS 5 3 EXACT DIFFERENTIAL EQUATIONS 5 4 LINEAR DIFFERENTIAL EQUATIONS 5 5 NUMERICAL SOLUTIONS TO DIFFERENTIAL EQUATIONS OF THE FIRST ORDER HIGH ORDER DIFFERENTIAL EQUATIONS AND SYSTEMS OF DIFFERENTIAL EQUATIONS 6 1 ORDINARY HIGH ORDER EQUATIONS 6 2 HIGHER ORDER LINEAR HOMOGENEOUS EQUATIONS WITH CONSTANT COEFFICIENTS 6 3 NON HOMOGENEOUS EQUATIONS WITH CONSTANT COEFFICIENTS VARIATION OF PARAMETERS 6 4 NON HOMOGENEOUS LINEAR EQUATIONS WITH VARIABLE COEFFICIENTS CAUCHY EULER EQUATIONS 66 5 THE LAPLACE TRANSFORM 6 6 SYSTEMS OF LINEAR HOMOGENEOUS EQUATIONS WITH CONSTANT COEFFICIENTS 6 7 SYSTEMS OF LINEAR NON HOMOGENEOUS EQUATIONS WITH CONSTANT COEFFICIENTS HIGHER ORDEN DIFFERENTIAL EQUATIONS AND SYSTEMS USING APPROXIMATION METHODS DIFFERENTIAL EQUATIONS IN PARTIAL DERIVATIVES 7 1 HIGHER ORDER EQUATIONS AND APPROXIMATION METHODS 7 2 THE EULER METHOD 7 3 THE RUNGE KUTTA METHOD 7 4 DIFFERENTIAL EQUATIONS SYSTEMS BY APPROXIMATE METHODS 7 5 DIFFERENTIAL EQUATIONS IN PARTIAL DERIVATIVES 7 6 ORTHOGONAL POLYNOMIALS 7 7 AIRY AND BESSEL FUNCTIONS *Vector Calculus Using Mathematica* Steven Tan, *Differential Calculus Using Mathematica* Cesar Perez,2016-01-16 Mathematica is a platform for scientific computing that helps you to work in virtually all areas of the experimental sciences and engineering In particular this software presents quite extensive capabilities and implements a large number of commands enabling you to efficiently handle problems involving Differential Calculus Using Mathematica you will be able to work with Limits Numerical and power series Taylor and MacLaurin series continuity derivability differentiability in several variables optimization and differential equations Mathematica also implements numerical methods for the approximate solution of differential equations The main content of the book is as follows LIMITS AND CONTINUITY ONE AND SEVERAL VARIABLES 1 1 LIMITS OF SEQUENCES 1 2 LIMITS OF FUNCTIONS LATERAL LIMITS 1 3

CONTINUITY 1 4 SEVERAL VARIABLES LIMITS AND CONTINUITY CHARACTERIZATION THEOREMS 1 5 ITERATED AND DIRECTIONAL LIMITS 1 6 CONTINUITY IN SEVERAL VARIABLES NUMERICAL SERIES AND POWER SERIES 2 1 SERIES CONVERGENCE CRITERIA 2 2 NUMERICAL SERIES WITH NON NEGATIVE TERMS 2 3 ALTERNATING NUMERICAL SERIES 2 4 POWER SERIES 2 5 POWER SERIES EXPANSIONS AND FUNCTIONS 2 6 TAYLOR AND LAURENT EXPANSIONS DERIVATIVES AND APPLICATIONS ONE AND SEVERAL VARIABLES 3 1 THE CONCEPT OF THE DERIVATIVE 3 2 CALCULATING DERIVATIVES 3 3 TANGENTS ASYMPTOTES CONCAVITY CONVEXITY MAXIMA AND MINIMA INFLECTION POINTS AND GROWTH 3 4 APPLICATIONS TO PRACTICAL PROBLEMS 3 5 PARTIAL DERIVATIVES 3 6 IMPLICIT DIFFERENTIATION DERIVABILITY IN SEVERAL VARIABLES 4 1 DIFFERENTIATION OF FUNCTIONS OF SEVERAL VARIABLES 4 2 MAXIMA AND MINIMA OF FUNCTIONS OF SEVERAL VARIABLES 4 3 CONDITIONAL MINIMA AND MAXIMA THE METHOD OF LAGRANGE MULTIPLIERS 4 4 SOME APPLICATIONS OF MAXIMA AND MINIMA IN SEVERAL VARIABLES VECTOR DIFFERENTIAL CALCULUS AND THEOREMS IN SEVERAL VARIABLES 5 1 CONCEPTS OF VECTOR DIFFERENTIAL CALCULUS 5 2 THE CHAIN RULE 5 3 THE IMPLICIT FUNCTION THEOREM 5 4 THE INVERSE FUNCTION THEOREM 5 5 THE CHANGE OF VARIABLES THEOREM 5 6 TAYLOR S THEOREM WITH N VARIABLES 5 7 VECTOR FIELDS CURL DIVERGENCE AND THE LAPLACIAN 5 8 COORDINATE TRANSFORMATION DIFFERENTIAL EQUATIONS 6 1 SEPARATION OF VARIABLES 6 2 HOMOGENEOUS DIFFERENTIAL EQUATIONS 6 3 EXACT DIFFERENTIAL EQUATIONS 6 4 LINEAR DIFFERENTIAL EQUATIONS 6 5 NUMERICAL SOLUTIONS TO DIFFERENTIAL EQUATIONS OF THE FIRST ORDER 6 6 ORDINARY HIGH ORDER EQUATIONS 6 7 HIGHER ORDER LINEAR HOMOGENEOUS EQUATIONS WITH CONSTANT COEFFICIENTS 6 8 NON HOMOGENEOUS EQUATIONS WITH CONSTANT COEFFICIENTS VARIATION OF PARAMETERS 6 9 NON HOMOGENEOUS LINEAR EQUATIONS WITH VARIABLE COEFFICIENTS CAUCHY EULER EQUATIONS 6 10 THE LAPLACE TRANSFORM 6 11 SYSTEMS OF LINEAR HOMOGENEOUS EQUATIONS WITH CONSTANT COEFFICIENTS 6 12 SYSTEMS OF LINEAR NON HOMOGENEOUS EQUATIONS WITH CONSTANT COEFFICIENTS 6 13 HIGHER ORDER EQUATIONS AND APPROXIMATION METHODS 6 14 THE EULER METHOD 6 15 THE RUNGE KUTTA METHOD 6 16 DIFFERENTIAL EQUATIONS SYSTEMS BY APPROXIMATE METHODS 6 17 DIFFERENTIAL EQUATIONS IN PARTIAL DERIVATIVES 6 18 ORTHOGONAL POLYNOMIALS *Calclabs with Mathematica for Stewart S Single Variable Calculus* Assistant Professor of Theology Columba Stewart, Osb,David Barrow,James Stewart,Jeff Morgan,Art Belmonte,Nancy Blachman,1997-05 Teaches students to use Mathematica to solve problems in calculus with student projects and weekly labs This is Version 2 2 *Discovering Calculus with Mathematica?* Cecilia A. Knoll,Michael D. Shaw,Jerry Johnson,Benny Evans,1995-07-06 An enrichman supplement to an otherwise traditional calculus course Uses the Mathematica program as a tool to explore calculus beyond the level of rote calculations and template problems through multi step structured laboratory assignments Problems presented as tear out laboratory

exercises with space for students to show their work No prior knowledge of Mathematica is required   Self-tutor for Computer Calculus Using Mathematica 2.0 Dietrich C. M. Burbulla,C. T. J. Dodson,1992 A self study companion text to a first course in calculus This guide introduces Mathematica a high level language of analytical and numerical mathematics It encourages use of the wide range of graphing and animation capabilities and aims to provide a basis for exploration of theory

Calculus and Differential Equations with Mathematica Pramote Dechaumphai,2016-05-04 Symbolic mathematics software have played an important role in learning calculus and differential equations MATHEMATICA is one of the most powerful software being used to solve various types of problems in mathematics This book presents a clear and easy to understand on how to use MATHEMATICA to solve calculus and differential equation problems The book contains essential topics that are taught in calculus and differential equation courses These topics are the limits differentiation integration series ordinary differential equations Laplace and Fourier transforms as well as special functions normally encountered in solving science and engineering problems Numerical methods in addition are employed when the exact solutions are not available The finite element method developed in the latest MATHEMATICA version is used to analyse partial differential equations for problems with complex geometry The partial differential equations could be in elliptic parabolic and hyperbolic forms A large number of examples are presented with detailed derivation for their solutions before using MATHEMATICA to confirm the same results With the clear explanation of all topics in this book and with the help of MATHEMATICA software students will enjoy learning calculus and differential equations as compared to the traditional way in the past   **A Guidebook to Calculus with Mathematica** Philip Crooke,John G. Ratcliffe,1991 Designed to enhance a traditional calculus curriculum this text offers guidance in utilizing Mathematica to explore calculus concepts Focusing on the process of mathematics rather than on finding single right answers this book involves students in actively observing and analyzing mathematical principles using Mathematica to handle the manipulative work With this text students should learn to utilize Mathematica particularly its numerical symbolic and graphing capabilities to discover for themselves why mathematical principles work as they do building stronger conceptual understanding in the process The topics addressed involve sophisticated mathematics but also produce pictorial results engaging students in the ideas and increasing their ability to view them geometrically The activities should also develop students sophistication in choosing and employing technology effectively   *The Joy of Mathematica* Alan Shuchat,Fred Shultz,2000 Joy of Mathematica Second Edition is a book and software combination for Windows and Macintosh that makes Mathematica easier to use and learn The software includes the most common Mathematica operations needed in the first two years of college and university courses The book is a manual for the software and an introduction to using Mathematica for mathematics and its applications to other fields It contains material for students in calculus differential equations and linear algebra courses Students and professionals will benefit from this user friendly practical guide to Mathematica The CD Runs on both Windows and Power Macintosh platforms Is

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