

To solve the ordinary differential equation

$$3 \frac{dy}{dx} = 5y^2 - \sin x, y(0) = 5,$$

by Euler's method, you need to rewrite the equation as

- A. $\frac{dy}{dx} = \sin x - 5y^2, y(0) = 5$
- B. $\frac{dy}{dx} = \frac{1}{3}(\sin x - 5y^2), y(0) = 5$
- C. $\frac{dy}{dx} = \frac{1}{3}(-\cos x - \frac{5y^3}{3}), y(0) = 5$
- D. $\frac{dy}{dx} = \frac{1}{3}\sin x, y(0) = 5$



Ordinary Differential Eq

Shepley L. Ross



Ordinary Differential Eq:

Ordinary Differential Equations Morris Tenenbaum, Harry Pollard, 1985-10-01 Skillfully organized introductory text examines origin of differential equations then defines basic terms and outlines the general solution of a differential equation. Subsequent sections deal with integrating factors, dilution and accretion problems, linearization of first order systems, Laplace Transforms, Newton's Interpolation Formulas, more.

Ordinary Differential Equations Wolfgang Walter, 1998-07 Based on a translation of the 6th edition of Gewöhnliche Differentialgleichungen by Wolfgang Walter, this edition includes additional treatments of important subjects not found in the German text as well as material that is seldom found in textbooks such as new proofs for basic theorems. This unique feature of the book calls for a closer look at contents and methods with an emphasis on subjects outside the mainstream. Exercises which range from routine to demanding are dispersed throughout the text and some include an outline of the solution. Applications from mechanics to mathematical biology are included and solutions of selected exercises are found at the end of the book. It is suitable for mathematics, physics and computer science graduate students to be used as collateral reading and as a reference source for mathematicians. Readers should have a sound knowledge of infinitesimal calculus and be familiar with basic notions from linear algebra, functional analysis is developed in the text when needed.

Ordinary Differential Equations Edward L. Ince, 1956-01-01 Among the topics covered in this classic treatment are linear differential equations, solution in an infinite form, solution by definite integrals, algebraic theory, Sturmian theory and its later developments, further developments in the theory of boundary problems, existence theorems, equations of first order, nonlinear equations of higher order, more. Highly recommended. Electronics Industries.

Ordinary Differential Equations and Their Solutions George Moseley Murphy, 2011-01-01 This treatment presents most of the methods for solving ordinary differential equations and systematic arrangements of more than 2 000 equations and their solutions. The material is organized so that standard equations can be easily found. Plus the substantial number and variety of equations promises an exact equation or a sufficiently similar one. 1960 edition.

Ordinary Differential Equations Nicolas Rouche, J. Mawhin, 1980 Good. No Highlights. No Markup. All pages are intact. Slight Shelfwear. May have the corners slightly dented. May have slight color changes. Slightly damaged spine.

Ordinary Differential Equations with Applications Ali Mason, 2018-10-20 Ordinary differential equations (ODEs) arise in many contexts of mathematics and science, social as well as natural. Mathematical descriptions of change use differentials and derivatives. Various differentials, derivatives and functions become related to each other via equations and thus a differential equation is a result that describes dynamically changing phenomena, evolution and variation. Often quantities are defined as the rate of change of other quantities, for example derivatives of displacement with respect to time or gradients of quantities, which is how they enter differential equations. Ordinary differential equations are equations to be solved in which the unknown element is a function rather than a number and in which the known information relates that function to its derivatives. Few such equations admit an explicit

answer but there is a wealth of qualitative information describing the solutions and their dependence on the defining equation Systems of differential equations form the basis of mathematical models in a wide range of fields from engineering and physical sciences to finance and biological sciences Differential equations are relations between unknown functions and their derivatives Computing numerical solutions to differential equations is one of the most important tasks in technical computing and one of the strengths of MATLAB The book explains the origins of various types of differential equations The scope of the book is limited to linear differential equations of the first order linear differential equation of higher order partial differential equations and special methods of solution of differential equations of second order keeping in view the requirement of students

Theory And Examples Of Ordinary Differential Equations Chin-yuan Lin, 2011-01-03 This book presents a complete theory of ordinary differential equations with many illustrative examples and interesting exercises A rigorous treatment is offered with clear proofs for the theoretical results and with detailed solutions for the examples and problems This book is intended for undergraduate students who major in mathematics and have acquired a prerequisite knowledge of calculus and partly the knowledge of a complex variable and are now reading advanced calculus and linear algebra Additionally the comprehensive coverage of the theory with a wide array of examples and detailed solutions would appeal to mathematics graduate students and researchers as well as graduate students in majors of other disciplines As a handy reference advanced knowledge is provided as well with details developed beyond the basics optional sections where main results are extended offer an understanding of further applications of ordinary differential equations

Ordinary Differential Equations Stephen Salaff, Shing-Tung Yau, 1998 Ordinary Differential Equations D. Somasundaram, 2001

Though ordinary differential equations is taught as a core course to students in mathematics and applied mathematics detailed coverage of the topics with sufficient examples is unique Written by a mathematics professor and intended as a textbook for third and fourth year undergraduates the five chapters of this publication give a precise account of higher order differential equations power series solutions special functions existence and uniqueness of solutions and systems of linear equations Relevant motivation for different concepts in each chapter and discussion of theory and problems without the omission of steps sets Ordinary Differential Equations A First Course apart from other texts on ODEs Full of distinguishing examples and containing exercises at the end of each chapter this lucid course book will promote self study among students

Handbook of Exact Solutions for Ordinary Differential Equations Valentin F. Zaitsev, Andrei D. Polyanin, 2002-10-28 Exact solutions of differential equations continue to play an important role in the understanding of many phenomena and processes throughout the natural sciences in that they can verify the correctness of or estimate errors in solutions reached by numerical asymptotic and approximate analytical methods The new edition of this bestselling handboo

Ordinary Differential Equations And Calculus Of Variations Victor Yu Reshetnyak, Mikola Vladimirovich Makarets, 1995-06-30 This problem book contains exercises for courses in differential equations and calculus of variations at universities and technical

institutes It is designed for non mathematics students and also for scientists and practicing engineers who feel a need to refresh their knowledge The book contains more than 260 examples and about 1400 problems to be solved by the students much of which have been composed by the authors themselves Numerous references are given at the end of the book to furnish sources for detailed theoretical approaches and expanded treatment of applications **Introduction to Ordinary Differential Equations** Shepley L. Ross,1980 A Course in Ordinary Differential Equations Stephen A. Wirkus,Randall J. Swift,2014-12-15 A Course in Ordinary Differential Equations Second Edition teaches students how to use analytical and numerical solution methods in typical engineering physics and mathematics applications Lauded for its extensive computer code and student friendly approach the first edition of this popular textbook was the first on ordinary differential equat

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Kurzweil,2014-06-28 The author Professor Kurzweil is one of the world s top experts in the area of ordinary differential equations a fact fully reflected in this book Unlike many classical texts which concentrate primarily on methods of integration of differential equations this book pursues a modern approach the topic is discussed in full generality which at the same time permits us to gain a deep insight into the theory and to develop a fruitful intuition The basic framework of the theory is expanded by considering further important topics like stability dependence of a solution on a parameter Carath odory s theory and differential relations The book is very well written and the prerequisites needed are minimal some basics of analysis and linear algebra As such it is accessible to a wide circle of readers in particular to non mathematicians

Ordinary Differential Equations Robert H. Martin,1983 **Ordinary Differential Equations** Bindhyachal Rai,D. P. Choudhury,2005 This textbook primarily intended for Undergraduate Honours and Engineering courses as well as NET GATE and other competitive examinations presupposes no background other than elementary calculus All the methods given in the book are explained with the help of solved examples A large number of unsolved exercises have also been provided on each topic BOOK JACKET **Ordinary Differential Equations** George F. Carrier,Carl E. Pearson,1968-01-01 Teaches techniques for constructing solutions of differential equations in a novel way often giving readers opportunity for ingenuity

Ordinary Differential Equations Vladimir I. Arnold,1992-05-08 Few books on Ordinary Differential Equations ODEs have the elegant geometric insight of this one which puts emphasis on the qualitative and geometric properties of ODEs and their

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