

Differential Equations

Practice Problems

Determine the order and degree of each of the following differential equations.

(i) $y \sec^2 x dx + \tan x dy = 0$

(ii) $\left(\frac{dy}{dx}\right)^4 + y^5 = \frac{d^3y}{dx^3}$

(iii) $a \frac{d^2y}{dx^2} = \left\{ 1 + \left(\frac{dy}{dx}\right)^2 \right\}^{\frac{3}{2}}$

(iv) $\tan^{-1} \sqrt{\frac{dy}{dx}} = x$ (v) $\log \left(\frac{d^2y}{dx^2}\right) = y$

(vi) $\frac{\frac{dy}{dt}}{y + \frac{dy}{dt}} = \frac{yt}{\frac{dy}{dt}}$ (vii) $\frac{d^2y}{du^2} = \frac{3y + \frac{dy}{du}}{\sqrt{\frac{d^2y}{du^2}}}$

(viii) $e^{dy} = x^2$

Order **Degree**

Ans. (i)	1	1
(ii)	3	1
(iii)	2	2
(iv)	1	1
(v)	2	1
(vi)	1	2
(vii)	2	3
(viii)	1	1

Form the differential equation by eliminating the arbitrary constants in each of the following cases.

(i) $y = A \sec x$ (ii) $y = C \tan^{-1} x$

(iii) $y = Ae^t + Be^{2t}$ (iv) $y = Ax^2 + Bx$

(v) $y = a \cos x + b \sin x$

(vi) $y = a \sin^{-1} x + b \cos^{-1} x$

(vii) $y = at + be^t$

(viii) $y = a \sin t + be^t$

(ix) $ax^2 + by = 1$

Ans. (i) $y = A \sec x$

Then $\frac{dy}{dx} = A \sec x \tan x = y \tan x$

(ii) $y = C \tan^{-1} x \Rightarrow \frac{y}{\tan^{-1} x} = C$

$\Rightarrow \frac{d}{dx} \left(\frac{y}{\tan^{-1} x} \right) = 0$

$\Rightarrow \frac{\frac{dy}{dx} \cdot \tan^{-1} x - y \cdot \frac{1}{1+x^2}}{\left(\tan^{-1} x\right)^2} = 0$

$\Rightarrow \tan^{-1} x \frac{dy}{dx} - \frac{y}{1+x^2} = 0$

(iii) $y = Ae^t + Be^{2t}$... (1)

$\frac{dy}{dt} = Ae^t + 2Be^{2t}$... (2)

Subtracting (1) from (2) we get

$\frac{dy}{dt} - y = Be^{2t} \Rightarrow \left(\frac{dy}{dt} - y\right) \cdot e^{-2t} = B$

Differentiating again we get

$\left(\frac{d^2y}{dt^2} - \frac{dy}{dt}\right) \cdot e^{-2t} + \left(\frac{dy}{dt} - y\right) (-2e^{-2t}) = 0$

$\Rightarrow \frac{d^2y}{dt^2} - \frac{dy}{dt} - 2 \frac{dy}{dt} + 2y = 0$

$\Rightarrow \frac{d^2y}{dt^2} - 3 \frac{dy}{dt} + 2y = 0$

Problems And Examples In Differential Equations

**Mikhail Leont'evich Krasnov, Aleksandr
Ivanovich Kiselev, Grigoriï Ivanovich
Makarenko**

Problems And Examples In Differential Equations:

500 Examples and Problems of Applied Differential Equations Ravi P. Agarwal, Simona Hodis, Donal O'Regan, 2019-09-24 This book highlights an unprecedented number of real life applications of differential equations together with the underlying theory and techniques The problems and examples presented here touch on key topics in the discipline including first order linear and nonlinear differential equations second and higher order differential equations first order differential systems the Runge Kutta method and nonlinear boundary value problems Applications include growth of bacterial colonies commodity prices suspension bridges spreading rumors modeling the shape of a tsunami planetary motion quantum mechanics circulation of blood in blood vessels price demand supply relations predator prey relations and many more Upper undergraduate and graduate students in Mathematics Physics and Engineering will find this volume particularly useful both for independent study and as supplementary reading While many problems can be solved at the undergraduate level a number of challenging real life applications have also been included as a way to motivate further research in this vast and fascinating field

Differential Equations Mehdi Rahmani-Andebili, 2022-07-19 This study guide is designed for students taking courses in differential equations The textbook includes examples questions and exercises that will help engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve student s problem solving skills and basic and advanced understanding of the topics covered in electric circuit analysis courses

Problems and Examples in Differential Equations Piotr Biler, Tadeusz Nadzieja, 1992-07-21 This book presents original problems from graduate courses in pure and applied mathematics and even small research topics significant theorems and information on recent results It is helpful for specialists working in differential equations

Lectures, Problems And Solutions For Ordinary Differential Equations Yuefan Deng, 2014-09-02 This unique book on ordinary differential equations addresses practical issues of composing and solving such equations by large number of examples and homework problems with solutions These problems originate in engineering finance as well as science at appropriate levels that readers with the basic knowledge of calculus physics or economics are assumed able to follow

Inverse Problems of Mathematical Physics Vladimir Gavrilovich Romanov, 1987

Elementary Differential Equations: Principles, Problems, and Solutions Fred Brauer, John A. Nohel, 1968

Ordinary Differential Equations and Calculus of Variations M. V. Makarets, V. Yu Reshetnyak, 1995 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 **Problems in Differential Equations** J. L. Brenner, 2013-01-01 Originally published San Francisco W H Freeman 1963 **Partial Differential Equations** Thomas Hillen, I. E. Leonard, Henry van Roessel, 2014-08-21 Uniquely provides fully solved problems for linear partial differential equations and boundary value problems Partial Differential Equations Theory and Completely Solved Problems utilizes real world physical models alongside essential theoretical concepts With extensive examples the book guides readers through the use of Partial Differential Equations PDEs for successfully solving and modeling phenomena in engineering biology and the applied sciences The book focuses exclusively on linear PDEs and how they can be solved using the separation of variables technique The authors begin by describing functions and their partial derivatives while also defining the concepts of elliptic parabolic and hyperbolic PDEs Following an introduction to basic theory subsequent chapters explore key topics including Classification of second order linear PDEs Derivation of heat wave and Laplace s equations Fourier series Separation of variables Sturm Liouville theory Fourier transforms Each chapter concludes with summaries that outline key concepts Readers are provided the opportunity to test their comprehension of the presented material through numerous problems ranked by their level of complexity and a related website features supplemental data and resources Extensively class tested to ensure an accessible presentation Partial Differential Equations is an excellent book for engineering mathematics and applied science courses on the topic at the upper undergraduate and graduate levels **Advanced Problem Solving with Maple** William P. Fox, William C. Bauldry, 2019-05-29 Problem Solving is essential to solve real world problems Advanced Problem Solving with Maple A First Course applies the mathematical modeling process by formulating building solving analyzing and criticizing mathematical models It is intended for a course introducing students to mathematical topics they will revisit within their further studies The authors present mathematical modeling and problem solving topics using Maple as the computer algebra system for mathematical explorations as well as obtaining plots that help readers perform analyses The book presents cogent applications that demonstrate an effective use of Maple provide discussions of the results obtained using Maple and stimulate thought and analysis of additional applications Highlights The book s real world case studies prepare the student for modeling applications Bridges the study of topics and applications to various fields of mathematics science and engineering Features a flexible format and tiered approach offers courses for students at various levels The book can be used for students with only algebra or calculus behind them About the authors Dr William P Fox is an emeritus professor in the Department of Defense Analysis at the Naval Postgraduate School Currently he is an adjunct professor Department of Mathematics the College of William and Mary He received his Ph D at Clemson University and has many publications and scholarly activities including twenty books and over one hundred and fifty journal articles William C Bauldry Prof Emeritus and Adjunct Research Prof of Mathematics at Appalachian State University received his PhD in Approximation Theory from Ohio State He has published many papers on pedagogy and technology often using Maple and has been the PI of several NSF

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Modern Differential Equations Martha L. Abell, James P. Braselton, 2001

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A Book of Problems in Ordinary Differential Equations Mikhail Leont'evich Krasnov, Aleksandr Ivanovich Kiselev, Grigoriĭ Ivanovich Makarenko, 1981

Lect, Prob & Sol Ordin (3rd Ed) Yuefan Deng, 2026-07-30

Handbook of Ordinary Differential Equations Andrei D. Polyanin, Valentin F. Zaitsev, 2017-11-15 The Handbook of Ordinary Differential Equations Exact Solutions Methods and Problems is an exceptional and complete reference for scientists and engineers as it contains over 7 000 ordinary differential equations with solutions This book contains more equations and methods used in the field than any other book currently available Included in the handbook are exact asymptotic approximate analytical numerical symbolic and qualitative methods that are used for solving and analyzing linear and nonlinear equations The authors also present formulas for effective construction of solutions and many different equations arising in various applications like heat transfer elasticity hydrodynamics and more This extensive handbook is the perfect resource for engineers and scientists searching for an exhaustive reservoir of information on ordinary differential equations

Elementary Course in Lagrange's Equations and Their Applications to Solutions of Problems of Dynamics Nicholas

Wladimir Akimoff, 1917 **Boyce's Elementary Differential Equations and Boundary Value Problems, Global Edition**
William E. Boyce, Richard C. DiPrima, Douglas B. Meade, 2017-04-17 Boyce's Elementary Differential Equations and Boundary Value Problems like its predecessors is written from the viewpoint of the applied mathematician whose interest in differential equations may sometimes be quite theoretical sometimes intensely practical and often somewhere in between The authors have sought to combine a sound and accurate but not abstract exposition of the elementary theory of differential equations with considerable material on methods of solution analysis and approximation that have proved useful in a wide variety of applications While the general structure of the book remains unchanged some notable changes have been made to improve the clarity and readability of basic material about differential equations and their applications In addition to expanded explanations this edition includes new problems updated figures and examples to help motivate students The program is primarily intended for undergraduate students of mathematics science or engineering who typically take a course on differential equations during their first or second year of study The main prerequisite for engaging with the program is a working knowledge of calculus gained from a normal two or three semester course sequence or its equivalent Some familiarity with matrices will also be helpful in the chapters on systems of differential equations **Bulletin of the Calcutta Mathematical Society** Calcutta Mathematical Society, 1924 Problems in the Calculus David Deitch Leib, 1915
Schaum's Outline of Theory and Problems of Introduction to Mathematical Economics Edward Thomas Dowling, 1992 This is an accompaniment for economics students who have a limited knowledge of maths presenting a solved problem introduction to basic concepts in calculus differential equations matrix algebra and linear programming This new edition contains new chapters on logarithmic differentiation area under a curve and a review section for those students whose understanding of maths is very weak

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