

- 20]. The solution of $\frac{dy}{dx} + y = e^{-x}$, $y(0) = 0$ is, - - -
- (a) $y = e^{-x}(x - 1)$ (b) $y = xe^x$
 (c) $y = xe^{-x}$ (d) $y = xe^{-x} + 1$
- 21]. Integrating factor of the differential equation $\frac{dy}{dx} + y \tan x - \sec x = 0$ is, - - -
- (a) $\sec x$ (b) $\cos x$
 (c) $e^{\cos x}$ (d) $e^{\sec x}$
- 22]. If $y = e^{-x}(A \cos x + B \sin x)$, then y is a solution of, - - -
- (a) $\frac{d^2 y}{dx^2} + 2y = 0$ (b) $\frac{d^2 y}{dx^2} + 2 \frac{dy}{dx} = 0$
 (c) $\frac{d^2 y}{dx^2} - 2 \frac{dy}{dx} + 2y = 0$ (d) $\frac{d^2 y}{dx^2} + 2 \frac{dy}{dx} + 2y = 0$
- 23]. Integration factor for the differential equation $x \frac{dy}{dx} = 1 + 2xy$ is, - -
- (a) e^{x^2} (b) e^{-2x}
 (c) e^{-x^2} (d) e^{2x}
- 24]. If the general solution of a differential equation is $(y + c)^2 = cx$, where c is an arbitrary constant, then the order and degree of differential equation is, - - -
- (a) 1, 2 (b) 2, 1
 (c) 2, 3 (d) None of these
- 25]. Integration factor for the differential equation $x^2 \frac{dy}{dx} - 2xy = \frac{1}{x}$ is - -
- (a) e^{-x^2} (b) e^{2x}
 (c) $\frac{1}{x^2}$ (d) $-\frac{1}{x^2}$
- 26]. Which of the following equations is an exact differential equation?
- (a) $(x^2 + 1)dx - xydy = 0$
 (b) $xdy + (3x - 2y)dx = 0$
 (c) $x^2 ydy - ydx = 0$ (d) $2xydx + (2 + x^2)dy = 0$
- 27]. The equation $y^2 = cx$ is general solution of - - -
- (a) $y' = \frac{2y}{x}$ (b) $y' = \frac{2x}{y}$
 (c) $y' = \frac{x}{2y}$ (d) $y' = \frac{y}{2x}$

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R Bogdan



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Mathematical Reviews, 2001 **Differential Equations** Allan Struthers, Merle Potter, 2019-07-31 This book is designed to serve as a textbook for a course on ordinary differential equations which is usually a required course in most science and engineering disciplines and follows calculus courses The book begins with linear algebra including a number of physical applications and goes on to discuss first order differential equations linear systems of differential equations higher order differential equations Laplace transforms nonlinear systems of differential equations and numerical methods used in solving differential equations The style of presentation of the book ensures that the student with a minimum of assistance may apply the theorems and proofs presented Liberal use of examples and homework problems aids the student in the study of the topics presented and applying them to numerous applications in the real scientific world This textbook focuses on the actual solution of ordinary differential equations preparing the student to solve ordinary differential equations when exposed to such equations in subsequent courses in engineering or pure science programs The book can be used as a text in a one semester core course on differential equations alternatively it can also be used as a partial or supplementary text in intensive courses that cover multiple topics including differential equations **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 *A Friendly Introduction to Differential Equations* Mohammed K A Kaabar, 2015-01-05 In this book there are five chapters The Laplace Transform Systems of Homogenous Linear Differential Equations HLDE Methods of First and Higher Orders Differential Equations Extended Methods of First and Higher Orders Differential Equations and Applications of Differential Equations In addition there are exercises at the end of each chapter above to let students practice additional sets of problems other than examples and they can also check their solutions to some of these exercises by looking at Answers to Odd Numbered Exercises section at the end of this book This book is a very useful for college students who studied Calculus II and other students who want to review some concepts of differential equations before studying courses such as partial differential equations applied mathematics and electric circuits II **Introductory Course in Differential Equations for Students in Classical and Engineering Colleges** Daniel Alexander Murray, 1898 **Analysis And Differential Equations (Second Edition)** Odile Pons, 2022-12-19 The book presents advanced methods of integral calculus

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Differential Equations and Group Methods for Scientists and Engineers James M. Hill, 1992-03-17 Differential Equations and Group Methods for Scientists and Engineers presents a basic introduction to the technically complex area of invariant one parameter Lie group methods and their use in solving differential equations The book features discussions on ordinary differential equations first second and higher order in addition to partial differential equations linear and nonlinear Each chapter contains worked examples with several problems at the end answers to these problems and hints on how to solve them are found at the back of the book Students and professionals in mathematics science and engineering will find this book indispensable for developing a fundamental understanding of how to use invariant one parameter group methods to solve 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

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