12]. $\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$ is the condition of - - - differentiation.

(a) Partial   (b) Successive

(c) Exact   (d) Total

13]. If $y = \cos x^2$ then $\frac{dy}{dx}$ is, - - -

(a) $2x\cos x$ (b) $-2x\sin x^2$

(c) $2x\sin x^2$ (d) $2x\cos x^2$

14]. Which of the following gives chain rule to find $\frac{dy}{dx}$, as $y = f(g(x))$?

(a) $\frac{dy}{dx} = \frac{dy}{du} \times \frac{dx}{du}$ (b) $\frac{dy}{dx} = \frac{du}{dy} \times \frac{du}{dx}$

(c) $\frac{dy}{dx} = \frac{du}{dy} \times \frac{dx}{du}$ (d) $\frac{dy}{dx} = \frac{dy}{du} \times \frac{du}{dx}$

15]. Auxiliary equation of the differential equation $\frac{d^2y}{dx^2} - 4\frac{dy}{dx} + 2y = 0$ can be - - -

(a) $m^2 - 4m + 4 = 0$ (b) $m^2 - 4m + 2 = 0$

(c) $m^2 + 4m + 4 = 0$ (d) $m^2 + 4m + 2 = 0$

16]. If $F = 2x^3y + 3x^2y - 4xy^2$ then F_{xy} is - - -

(a) $6x^2y + 6x - 8$ (b) $6x^2 + 6x - 8y$

(c) $6xy + 6x - 8y$ (d) $6x^2 + 6xy - 8$

17]. Which of the following is not a type of differential equation?

(a) Ordinary differential equation

(b) Successive differential equation

(c) Linear differential equation

(d) Homogeneous differential equation

18]. Which of the following is a second-order differential equation?

(a) $(y')^2 + x = y^2$ (b) $y' = y^2$

(c) $y'y'' + y = \sin x$ (d) $y' + x = y^2$

19]. Which of the following is the general solution of $\frac{d^2y}{dx^2} - 2\frac{dy}{dx} + y = 0$

(a) $y = (Ax + B)e^{-x}$

(b) $y = A\cos x + B\sin x$

(c) $y = Ae^x + Be^{-x}$

(d) $y = (Ax + B)e^x$

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Mathematical Reviews ,2001 **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 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 **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 *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

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