

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

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

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

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

Differential Equations Problems And Solutions

Léo Pomar



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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

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Ordinary Differential Equations Morris Tenenbaum, Harry Pollard, 2012-04-24 This unusually well written skillfully organized introductory text provides an exhaustive survey of ordinary differential equations which express the relationship between variables and their derivatives In a disarmingly simple step by step style that never sacrifices mathematical rigor the authors Morris Tenenbaum of Cornell University and Harry Pollard of Purdue University introduce and explain complex critically important concepts to undergraduate students of mathematics engineering and the sciences The book begins with a section that examines the origin of differential equations defines basic terms and outlines the general solution of a differential equation the solution that actually contains every solution of such an equation Subsequent sections deal with such subjects as integrating factors dilution and accretion problems the algebra of complex numbers the linearization of first order systems Laplace Transforms Newton's Interpolation Formulas and Picard's Method of Successive Approximations The book contains two exceptional chapters one on series methods of solving differential equations the second on numerical methods of solving differential

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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 *The Differential Equations Problem Solver*

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Mikhail Leont'evich Krasnov,Aleksandr Ivanovich Kiselev,Grigoriĭ Ivanovich Makarenko,1981 **Problems and Solutions in Ordinary Differential Equations** Fred Brauer,John A. Nohel,1968 **Student Solutions Manual, Boundary Value Problems** David L. Powers,2009-07-13 Student Solutions Manual Boundary Value Problems

Introductory Differential Equations Martha L. Abell,James P. Braselton,2010-04-20 This text is for courses that are typically called Introductory Differential Equations Introductory Partial Differential Equations Applied Mathematics and Fourier Series Differential Equations is a text that follows a traditional approach and is appropriate for a first course in

ordinary differential equations including Laplace transforms and a second course in Fourier series and boundary value problems Some schools might prefer to move the Laplace transform material to the second course which is why we have placed the chapter on Laplace transforms in its location in the text Ancillaries like Differential Equations with Mathematica and or Differential Equations with Maple would be recommended and or required ancillaries Because many students need a lot of pencil and paper practice to master the essential concepts the exercise sets are particularly comprehensive with a wide range of exercises ranging from straightforward to challenging Many different majors will require differential equations and applied mathematics so there should be a lot of interest in an intro level text like this The accessible writing style will be good for non math students as well as for undergrad classes

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