

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

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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

Mehdi Rahmani-Andebili



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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

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Problems in Differential Equations J. L. Brenner, 2013-01-01 Originally published San Francisco W H Freeman 1963

Linear Differential Equations in the Complex Domain Yasutaka Sibuya, 2008-06-26 This book is a translation of a 1976 book originally written in Japanese The main attention is paid to intrinsic aspects of problems related to linear ordinary differential equations in complex domains Examples of the problems discussed in the book include the Riemann problem on the Riemann sphere a characterization of regular singularities and a classification of meromorphic differential equations Since the original book was published many new ideas have developed such as applications of D modules Gevrey asymptotics cohomological methods k summability and studies of differential equations containing parameters Five appendices added in the present edition briefly cover these new ideas In addition more than 100 references have been added This book introduces the reader to the essential facts concerning the structure of solutions of linear differential equations in the complex domain and illuminates the intrinsic meaning of older results by means of more modern ideas A useful reference for research mathematicians this book would also be suitable as a textbook in a graduate course or seminar

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

Differential Equations with Boundary-value Problems Dennis G. Zill, 1986 Includes solutions to odd numbered exercises

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