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Determine the form of a particular solution, sect 4.4  
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Differential Equations ... Workbook 19: Differential Equations 3. Exact equations Consider the differential equation  $dy/dx = 3x^2$  By direct integration we find that the general solution of this equation is  $y = x^3 + C$  where C is, as usual, an arbitrary constant of integration.

## Differential Equations - Learn

Differential equations are called partial differential equations (pde) or ordinary differential equations (ode) according to whether or not they contain partial derivatives. The order of a differential equation is the highest order derivative occurring.

## Differential Equations I

Power series representations of functions can sometimes be used to find solutions to differential equations. Differentiate the power series term by term and substitute into the differential equation to find relationships between the power series coefficients. Find a power series solution for the following differential equations.

## Series Solutions of Differential Equations - Calculus Volume 3

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## Solution Manual George F Simmons Differential

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## Equations ...

Write down the general solution of this equation.

Solution When  $y_1 = e^{4x}$ , differentiation yields:  $\frac{dy_1}{dx} = 4e^{4x}$  and  $\frac{d^2y_1}{dx^2} = 16e^{4x}$  Substitution into the left-hand side of the ODE gives  $16e^{4x} - 6(4e^{4x}) + 8e^{4x}$ , which equals 0, so that  $y_1 = e^{4x}$  is indeed a solution. Similarly if  $y_2 = e^{2x}$ , then  $\frac{dy_2}{dx} = 2e^{2x}$  and  $\frac{d^2y_2}{dx^2} = 4e^{2x}$ .

## Second Order Differential Equations

1. Solve the differential equation  $x(\frac{dy}{dx}) + y = x \cos x + \sin x$ , given that  $y = 1$  when  $x = \pi/2$ . [Delhi 2017]
2. Find the particular solution of the differential equation  $(1 - y^2)(1 + \log x)dx + 2xy dy = 0$ , given that  $y = 0$  when  $x = 1$ . [Delhi 2016] 3.

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To find the particular solution of a differential equation, the arbitrary constants need to be given particular values. So, in the example, above if we replace  $K = C = 1$ , we get the solution  $y = \cos x + \sin x$  which is termed as the particular solution of the differential equation. Exercise 9.2 Solutions: 12 Questions (10 Short Questions, 2 MCQs)

## NCERT Solutions Class 12 Maths Chapter 9 Differential

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used textbook "Elementary differential equations and boundary value problems" by Boyce & DiPrima (John Wiley & Sons, Inc., Seventh Edition, c 2001). Many of the examples presented in these notes may be found in this book. The material of Chapter 7 is adapted from the textbook "Nonlinear dynamics and chaos" by

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Steven

## Differential Equations - Department of Mathematics, HKUST

Partial Differential Equations. Applications of PDEs. Solution Using Separation of Variables. Solutions Using Fourier Series. Index. Complex Functions. Cauchy-Riemann Equations and Conformal Mapping. Standard Complex Functions. Basic Complex Integration.

## HELM Workbooks in pdf format - Learn

The general solution of the differential equation  $ex dy + (yex + 2x) dx = 0$  is  $x ey + x^2 = C$   $x ey + y^2 = C$   $e x + x^2 = C$

## The general solution of the differential equation $ex dy$

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NCERT Solutions for Class 12 Maths Chapter 9 Differential Equations- is designed and prepared by the best teachers across India. All the important topics are covered in the exercises and each answer comes with a detailed explanation to help students understand concepts better.

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For example, the general solution of the differential equation  $\left(\frac{dy}{dx} = 3x^2\right)$ , which turns out to be  $(y = x^3 + c)$  where  $c$  is an arbitrary constant, denotes a one-parameter family of curves as shown in the figure below. Particular Solution of a Differential Equation

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## General and Particular Differential Equations Solutions

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focuses the student's attention on the idea of seeking a solution of a differential equation by writing it as  $y' + p(x)y = q(x)$ , where  $y_1$  is a known solution of related equation and  $u$  is a function to be determined. I use this idea in nonstandard ways, as follows: In Section 2.4 to solve nonlinear first order equations, such as Bernoulli equations and nonlinear

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