

EXERCISE 3.26

Solve the following differential equations:

1. $x^2 \frac{d^2 y}{dx^2} - 4x \frac{dy}{dx} + 6y = \frac{42}{x^4}$ **Ans.** $C_1 x^2 + C_2 x^3 + \frac{1}{x^4}$
2. $(x^2 D^2 - 3x D + 4) y = 2x^2$ **Ans.** $(C_1 + C_2 \log x) x^2 + x^2 (\log x)^2$
3. $x^2 \frac{d^2 y}{dx^2} - x \frac{dy}{dx} + y = \log x$ (*AMIETE, June 2010*) **Ans.** $(C_1 + C_2 \log x) x + \log x + 2$
4. $\frac{d^2 y}{dx^2} + \frac{1}{x} \frac{dy}{dx} = \frac{12 \log x}{x^2}$ **Ans.** $C_1 + C_2 \log x + 2 (\log x)^2$
5. $(x^2 D^2 - x D - 3) y = x^2 \log x$ **Ans.** $\frac{C_1}{x} + C_2 x^3 - \frac{x^2}{3} \left(\log x + \frac{2}{3} \right)$
(*A.M.I.E. Winter 2001, Summer 2001*)
6. $x^2 \frac{d^2 y}{dx^2} - 2x \frac{dy}{dx} + 2y = x^2 + \sin (5 \log x)$
Ans. $c_1 x + c_2 x^2 + x^2 \log x + \frac{1}{754} [15 \cos (5 \log x) - 23 \sin (5 \log x)]$
7. $x^2 \frac{d^2 y}{dx^2} - 3x \frac{dy}{dx} + y = \log x \frac{\sin (\log x) + 1}{x}$ (*AMIETE, Dec. 2009*)
Ans. $y + C_1 x^{2+\sqrt{3}} + C_2 x^{2-\sqrt{3}} + \frac{1}{x} \left[\frac{382}{61} \cos \log x + \frac{54}{61} \sin (\log x) + 6 \log x \cos (\log x) + 5 \log x \sin (\log x) \right] + \frac{1}{6x}$
8. $(1+x)^2 \frac{d^2 y}{dx^2} + (1+x) \frac{dy}{dx} + y = 2 \sin \log (1+x)$
Ans. $y = C_1 \cos \log (1+x) + C_2 \sin \log (1+x) - \log (1+x) \cos \log (1+x)$
9. Which of the basis of solutions are for the differential equation $x^2 \frac{d^2 y}{dx^2} - x \frac{dy}{dx} + y = 0$
(a) $x, x I_n x,$ (b) $I_n x, e^x$ (c) $\frac{1}{x}, \frac{1}{x^2},$ (d) $\frac{1}{x^2} e^x, x I_n x$
(*A.M.I.E., Winter 2001*) **Ans.** (a)
10. The general solution of $x^2 \frac{d^2 y}{dx^2} - 5x \frac{dy}{dx} + 9y = 0$ is
(a) $(C_1 + C_2 x) e^{3x}$ (b) $(C_1 + C_2 x) x^3$ (c) $(C_1 + C_2 x) x^3$ (d) $(C_1 + C_2 I_n x) e^{x^3}$
(*AMIETE, Dec. 2009*) **Ans.** (b)
11. To transform $x \frac{d^2 y}{dx^2} + \frac{dy}{dx} = \frac{1}{x}$ into a linear differential equation with constant coefficients, the required substitution is
(a) $x = \sin t$ (b) $x = t^2 + 1$ (c) $x = \log t$ (d) $x = e^t$
(*AMIETE, June 2010*) **Ans.** (d)

Advanced Engineering Mathematics Problems Solution

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Advanced Engineering Mathematics Problems Solution:

Advanced Engineering Mathematics, 10e Volume 1: Chapters 1 - 12 Student Solutions Manual and Study Guide Herbert Kreyszig, Erwin Kreyszig, 2012-01-17 Student Solutions Manual to accompany Advanced Engineering Mathematics 10e The tenth edition of this bestselling text includes examples in more detail and more applied exercises both changes are aimed at making the material more relevant and accessible to readers Kreyszig introduces engineers and computer scientists to advanced math topics as they relate to practical problems It goes into the following topics at great depth differential equations partial differential equations Fourier analysis vector analysis complex analysis and linear algebra differential equations [Advanced Engineering Mathematics](#) Erwin Kreyszig, 2017-10-31 A mathematics resource for engineering physics math and computer science students The enhanced e text Advanced Engineering Mathematics 10th Edition is a comprehensive book organized into six parts with exercises It opens with ordinary differential equations and ends with the topic of mathematical statistics The analysis chapters address Fourier analysis and partial differential equations complex analysis and numeric analysis The book is written by a pioneer in the field of applied mathematics **Advanced Engineering Mathematics, Student Solutions Manual** Alan Jeffrey, 2001-07-19 This is the Student Solution Manual for Advanced Engineering Mathematics by Alan Jeffrey The textbook not provided with this purchase provides comprehensive and contemporary coverage of key mathematical ideas techniques and their widespread applications for students majoring in engineering computer science mathematics and physics Using a wide range of examples throughout the book Jeffrey illustrates how to construct simple mathematical models how to apply mathematical reasoning to select a particular solution from a range of possible alternatives and how to determine which solution has physical significance Jeffrey includes material that is not found in works of a similar nature such as the use of the matrix exponential when solving systems of ordinary differential equations The text provides many detailed worked examples following the introduction of each new idea and large problem sets provide both routine practice and in many cases greater challenge and insight for students Most chapters end with a set of computer projects that require the use of any CAS such as Maple or Mathematica that reinforce ideas and provide insight into more advanced problems *Advanced Engineering Mathematics* Merle C. Potter, Jack L. Lessing, Edward F. Aboufadel, 2019-06-14 This book is designed to serve as a core text for courses in advanced engineering mathematics required by many engineering departments The style of presentation is such that the student with a minimum of assistance can follow the step by step derivations Liberal use of examples and homework problems aid the student in the study of the topics presented Ordinary differential equations including a number of physical applications are reviewed in Chapter One The use of series methods are presented in Chapter Two Subsequent chapters present Laplace transforms matrix theory and applications vector analysis Fourier series and transforms partial differential equations numerical methods using finite differences complex variables and wavelets The material is presented so that four or five subjects can be covered

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