Chapter 1 Introduction to Differential Equations

Section 1.2

- This D.E. is of order two because the highest derivative in the equation is y".
- Order is 1.
- This D.E. is of order one because the highest derivative in the equation is y'. (Note: (y') ≠ y''')
- Order is 3.
- Differentiating gives us y' = ke^{kt}. Substitution yields ke^{kt} + 2e^{kt} = 0. Therefore, k = -2.
- 6. $y'' y = 0 \Rightarrow k^2 e^{kt} e^{kt} = 0 \Rightarrow k = \pm 1$.
- 7. Differentiating gives us $y' = -2k \sin 2te^{t\cos 2t}$. Substitution yields $-2k \sin 2te^{t\cos 2t} + \sin 2te^{t\cos 2t} = 0$. Therefore, $\sin 2te^{t\cos 2t}(-2k+1) = 0$, and solving for k gives us $k = \frac{1}{2}$.
- 8. $y = ke^{-t}$, y' + y = 0, $-ke^{-t} + ke^{-t} = 0$, k can be any real number.
- 9 (a). $y = Ce^{t^2}$. Differentiating gives us $y^* = Ce^{t^2} \cdot 2t = 2ty$. Therefore, $y^* 2ty = 0$ for any value of C.
- 9 (b). Substituting into the differential equation yields y(I) = Ce¹⁺ = Ce. Using the initial condition, y(I) = 2 = Ce. Solving for C, we find C = 2e⁻¹.
- 10. y''' = 2. $y'' = 2t + c_1$, $y' = t^2 + c_1t + c_2$, $y = \frac{t^3}{3} + c_1\frac{t^2}{2} + c_2t + c_3$. Order = 3 3 arbitrary constants
- 11 (a). $y = C_1 \sin 2t + C_2 \cos 2t$. Differentiating gives us $y' = 2C_1 \cos 2t 2C_2 \sin 2t$ and $y'' = -4C_1 \sin 2t - 4C_2 \cos 2t = -4(C_1 \sin 2t + C_2 \cos 2t) = -4y$. Therefore, y'' + 4y = -4y + 4y = 0 and thus $y(t) = C_1 \sin 2t + C_2 \cos 2t$ is a solution of the D.E. y'' + 4y = 0.
- 11 (b). $y(\frac{\pi}{4}) = C_1(1) + C_2(0) = C_1 = 3$ and $y'(\frac{\pi}{4}) = 2C_1(0) 2C_2(1) = -2C_2 = -2 \Rightarrow C_2 = 1$.
- 12. $y = 2e^{-kx}$. $y' + ky = -8e^{-kx} + 2ke^{-kx} = 2(k-4)e^{-kx} = 0$ $\therefore k = 4$. $y(0) = 2 = y_0$. $\therefore k = 4, y_0 = 2$.

Elementary Differential Equations Kohler Johnson Solutions Manual

Charles Henry Edwards, David E. Penney

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Solutions Manual, Elementary Differential Equations with Boundary Value Problems, 3rd Edition

Edwards, David E. Penney, 1993-01-01 <u>Student's Solutions Manual to Accompany Elementary Differential Equations</u>
Kohler, Lee W. Johnson, 2003 Contains detailed solutions for all odd numbered exercises <u>Student Solutions Manual for Elementary Differential Equations</u> Charles Henry Edwards, David E. Penney, 2007-11-19 **Elementary Differential**

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Differential Equations Christian Constanda,2017-03-14 This textbook is designed with the needs of today s student in mind It is the ideal textbook for a first course in elementary differential equations for future engineers and scientists including mathematicians This book is accessible to anyone who has a basic knowledge of precalculus algebra and differential and integral calculus Its carefully crafted text adopts a concise simple no frills approach to differential equations which helps students acquire a solid experience in many classical solution techniques With a lighter accent on the physical interpretation of the results a more manageable page count than comparable texts a highly readable style and over 1000 exercises designed to be solved without a calculating device this book emphasizes the understanding and practice of essential topics in a succinct yet fully rigorous fashion Apart from several other enhancements the second edition contains one new chapter on numerical methods of solution The book formally splits the pure and applied parts of the contents by placing the discussion of selected mathematical models in separate chapters At the end of most of the 246 worked examples the author provides the commands in Mathematica for verifying the results The book can be used independently by the average student to learn the fundamentals of the subject while those interested in pursuing more advanced material can regard it as an easily taken first step on the way to the next level Additionally practitioners who encounter differential

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