

Chapter 1

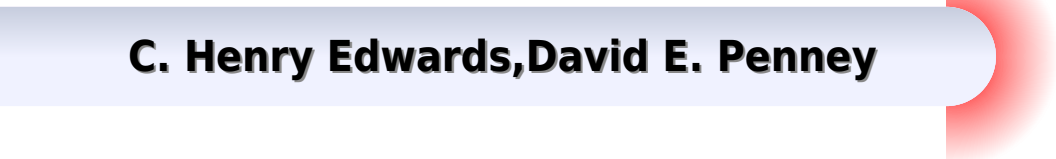
Introduction to Differential Equations

Section 1.2

1. This D.E. is of order two because the highest derivative in the equation is y'' .
2. Order is 1.
3. This D.E. is of order one because the highest derivative in the equation is y' . (Note: $(y')^3 \neq y'''$)
4. Order is 3.
5. Differentiating gives us $y' = ke^{3t}$. Substitution yields $ke^{3t} + 2e^{3t} = 0$. Therefore, $k = -2$.
6. $y'' - y = 0 \Rightarrow k^2 e^{kt} - e^{kt} = 0 \Rightarrow k = \pm 1$.
7. Differentiating gives us $y' = -2k \sin 2te^{k \cos 2t}$. Substitution yields $-2k \sin 2te^{k \cos 2t} + \sin 2te^{k \cos 2t} = 0$. Therefore, $\sin 2te^{k \cos 2t}(-2k + 1) = 0$, 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 $y(1) = Ce^{1^2} = Ce$. Using the initial condition, $y(1) = 2 = Ce$. Solving for C , we find $C = 2e^{-1}$.
10. $y''' = 2$, $y'' = 2t + c_1$, $y' = t^2 + c_1 t + c_2$, $y = \frac{t^3}{3} + c_1 \frac{t^2}{2} + c_2 t + c_3$.
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). $y\left(\frac{\pi}{2}\right) = C_1(1) + C_2(0) = C_1 = 3$ and $y'\left(\frac{\pi}{2}\right) = 2C_1(0) - 2C_2(1) = -2C_2 = -2 \Rightarrow C_2 = 1$.
12. $y = 2e^{-4t}$, $y' + ky = -8e^{-4t} + 2ke^{-4t} = 2(k - 4)e^{-4t} = 0$
 $\therefore k = 4$, $y(0) = 2 = y_0$, $\therefore k = 4, y_0 = 2$.

Solution Manual Elementary Differential Equations

C. Henry Edwards, David E. Penney



Solution Manual Elementary Differential Equations:

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

Edwards, David E. Penney, 1993-01-01 *Student Solutions Manual for Elementary Differential Equations* Charles Henry Edwards, David E. Penney, 2007-11-19 **Elementary Differential Equations + Student Solutions Manual** C. Henry Edwards, David E. Penney, 2007-12-06 This package contains the following components 0132397307 Elementary Differential Equations 0136006159 Student Solutions Manual for Elementary Differential Equations Student Solutions Manual to accompany Boyce Elementary Differential Equations 9e and Elementary Differential Equations w/ Boundary Value Problems 8e Boyce, Richard C. DiPrima, 2008-12-31 Written from the perspective of the applied mathematician the latest edition of this bestselling book focuses on the theory and practical applications of Differential Equations to engineering and the sciences Emphasis is placed on the methods of solution analysis and approximation Use of technology illustrations and problem sets help readers develop an intuitive understanding of the material Historical footnotes trace the development of the discipline and identify outstanding individual contributions This book builds the foundation for anyone who needs to learn differential equations and then progress to more advanced studies Solutions Manual - Elementary Differential Equations with Boundary Value Problems Charles Henry Edwards, David E. Penney, 1999-11 **Student Solutions Manual to accompany Boyce Elementary Differential Equations and Boundary Value Problems** Charles W. Haines, Boyce, Richard C. DiPrima, 2004-08-06 **Student Solutions Manual, Elementary Differential Equations with Boundary Value Problems, Fourth Edition** Charles Henry Edwards, David E. Penney, 2000 **Elementary Differential Equations and Boundary Value Problems, Textbook and Student Solutions Manual** William E. Boyce, Richard C. DiPrima, 2005-03-30 This revision of the market leading book maintains its classic strengths contemporary approach flexible chapter construction clear exposition and outstanding problems Like its predecessors this revision is written from the viewpoint of the applied mathematician focusing both on the theory and the practical applications of Differential Equations as they apply to engineering and the sciences Sound and Accurate Exposition of Theory special attention is made to methods of solution analysis and approximation Use of technology illustrations and problem sets help readers develop an intuitive understanding of the material Historical footnotes trace development of the discipline and identify outstanding individual contributions

Instructor's Solution Manual to Accompany Elementary Differential Equations and Elementary Differential Equations W/ Boundary Value Problems William E. Boyce, Richard C. DiPrima, 2012-09-07 **Solutions Manual, Elementary Differential Equations with Boundary Value Problems, 2nd Edition** Charles Henry Edwards, David E. Penney, 1989 This is a solutions manual to accompany the textbooks Elementary Differential Equations with Applications 1989 and Elementary Differential Equations with Boundary Value Problems 1989 P vii preface

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