

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. $y = 2e^{-4t}$, $y' + ky = -8e^{-4t} + 2ke^{-4t} = 2(k - 4)e^{-4t} = 0$
 $\therefore k = 4$, $y(0) = 2 = y_0$, $\therefore k = 4, y_0 = 2$.

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Werner E. Kohler



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1. Understanding the eBook Elementary Differential Equations Kohler And Johnson Solutions
 - The Rise of Digital Reading Elementary Differential Equations Kohler And Johnson Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Differential Equations Kohler And Johnson Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elementary Differential Equations Kohler And Johnson Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elementary Differential Equations Kohler And Johnson Solutions
 - Personalized Recommendations
 - Elementary Differential Equations Kohler And Johnson Solutions User Reviews and Ratings
 - Elementary Differential Equations Kohler And Johnson Solutions and Bestseller Lists
5. Accessing Elementary Differential Equations Kohler And Johnson Solutions Free and Paid eBooks
 - Elementary Differential Equations Kohler And Johnson Solutions Public Domain eBooks
 - Elementary Differential Equations Kohler And Johnson Solutions eBook Subscription Services

- Elementary Differential Equations Kohler And Johnson Solutions Budget-Friendly Options
- 6. Navigating Elementary Differential Equations Kohler And Johnson Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Elementary Differential Equations Kohler And Johnson Solutions Compatibility with Devices
 - Elementary Differential Equations Kohler And Johnson Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elementary Differential Equations Kohler And Johnson Solutions
 - Highlighting and Note-Taking Elementary Differential Equations Kohler And Johnson Solutions
 - Interactive Elements Elementary Differential Equations Kohler And Johnson Solutions
- 8. Staying Engaged with Elementary Differential Equations Kohler And Johnson Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elementary Differential Equations Kohler And Johnson Solutions
- 9. Balancing eBooks and Physical Books Elementary Differential Equations Kohler And Johnson Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elementary Differential Equations Kohler And Johnson Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Elementary Differential Equations Kohler And Johnson Solutions
 - Setting Reading Goals Elementary Differential Equations Kohler And Johnson Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Elementary Differential Equations Kohler And Johnson Solutions
 - Fact-Checking eBook Content of Elementary Differential Equations Kohler And Johnson Solutions
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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