

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

1. $x^2 - 2x^2y + c$

$$2x^2 dx - 2x^2 dy - 2y(2x) dx = 0$$

$$2x^2 dx - 4xy dx - 2x^2 dy = 0$$

divide by $2x^2$

$$dx - 2y dx - dy = 0$$

$$\therefore (1 - 2y) dx - dy = 0 \quad \text{and}$$

2. $y \sin x - xy^2 + c$

$$y(\cos x dx) + \sin x dy - dy dy$$

$$- y^2 dx = 0$$

$$y(\cos x dx) - y^2 dx + \sin x dy - dy dy = 0$$

$$y(\cos x - y) dx + (\sin x - 2y) dy = 0 \quad \text{and}$$

3. $x^2 y + 1 + c x$

$$x^2 dy + 2xy dx = 0 + c dx$$

divide by dx

$$\frac{d^2 y}{dx^2} + 2xy = 0$$

multiply by x

$$x^2 y + 1 + \left[x^2 \frac{d^2 y}{dx^2} + 2xy \right] x$$

$$x^2 y + 1 + x^2 \frac{d^2 y}{dx^2} + 2x^2 y$$

$$x^2 y dx + dx + x^2 dy + 2x^2 y dx$$

$$dx + x^2 dy + 2x^2 y dx - x^2 y dx = 0$$

$$\therefore dx + x^2 dy + x^2 y dx = 0$$

$$\therefore (x^2 y + 1) dx + x^2 dy = 0 \quad \text{and}$$

4. $cy^3 = x^2 + y$

$$\frac{x^2 + y}{y^3} = c$$

$$\frac{x^2(2x dx + dy) - (x^2 + y)3y^2 dy}{(y^3)^2} = 0$$

$$2xy^2 dx + x^2 dy - 3xy^2 dy - 3y^3 dy = 0$$

divide by y^3

$$2xy dx + x^2 dy - 3xy dy - 3y dy = 0$$

$$\therefore 2xy dx - 2x^2 dy - 3y dy = 0 \quad \text{and}$$

5. $x = A \sin(\omega t + \phi)$; ω is a parameter not to be elim.

$$\frac{dx}{dt} = A \omega \cos(\omega t + \phi)$$

$$\frac{d^2 x}{dt^2} = A \omega^2 [-\sin(\omega t + \phi)]$$

$$= -A \omega^2 \sin(\omega t + \phi)$$

$$\text{but } x = A \sin(\omega t + \phi)$$

$$\frac{d^2 x}{dt^2} = -\omega^2 x$$

$$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0 \quad \text{and}$$

6. $x = C_1 \cos \omega t + C_2 \sin \omega t$
Let ω be parameter.

$$\frac{dx}{dt} = -C_1 \omega \sin \omega t + C_2 \omega \cos \omega t$$

$$\frac{d^2 x}{dt^2} = -C_1 \omega^2 \cos \omega t - C_2 \omega^2 \sin \omega t$$

$$= -\omega^2 (C_1 \cos \omega t + C_2 \sin \omega t)$$

$$= -\omega^2 x$$

$$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0 \quad \text{and}$$

7. $y = Cx + C^2 + 1$

$$y' = C + 2C \quad \therefore C = \frac{y'}{2}$$

$$\therefore y = \frac{y'}{2}x + \left(\frac{y'}{2}\right)^2 + 1 \quad \text{and}$$

8. $y = mx + \frac{1}{m^2}$; m is a parameter, to be eliminated.

$$y' = m + 0 \quad \therefore m = y'$$

$$\therefore y = y'x + \frac{1}{y'^2} \quad \text{and}$$

9. $y^3 = 4ax$

$$3y^2 dy = 4a dx$$

$$\therefore dy = \frac{4a dx}{3y^2}$$

multiply by x

$$y^3 = \left(\frac{4a dx}{3y^2}\right)x$$

$$y^3 dx = 4axy$$

$$\therefore y^3 dx - 4axy = 0 \quad \text{and}$$

10. $y = 4x^2 + bx + c$

$$y' = 8x + b + 0$$

$$y'' = 8 + 0 + 0$$

$$y''' = 0$$

and

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Table of Contents Rainville Solution Manual

1. Understanding the eBook Rainville Solution Manual
 - The Rise of Digital Reading Rainville Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Rainville Solution Manual
 - 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 Rainville Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Rainville Solution Manual
 - Personalized Recommendations

- Rainville Solution Manual User Reviews and Ratings
- Rainville Solution Manual and Bestseller Lists
- 5. Accessing Rainville Solution Manual Free and Paid eBooks
 - Rainville Solution Manual Public Domain eBooks
 - Rainville Solution Manual eBook Subscription Services
 - Rainville Solution Manual Budget-Friendly Options
- 6. Navigating Rainville Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Rainville Solution Manual Compatibility with Devices
 - Rainville Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Rainville Solution Manual
 - Highlighting and Note-Taking Rainville Solution Manual
 - Interactive Elements Rainville Solution Manual
- 8. Staying Engaged with Rainville Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Rainville Solution Manual
- 9. Balancing eBooks and Physical Books Rainville Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Rainville Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Rainville Solution Manual
 - Setting Reading Goals Rainville Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Rainville Solution Manual
 - Fact-Checking eBook Content of Rainville Solution Manual

- 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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