

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 $2x^2$

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

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

2. $y \sin x - xy^2 = 0$

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

$$+ y^2 dx = 0$$

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

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

3. $x^2 y = 1 + Cx$

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

divide by dx

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

substitute

$$x^2 y = 1 + Cx \Rightarrow y = \frac{1}{x^2} + C \frac{x}{x^2}$$

$$x^2 y = 1 + x^2 \frac{dy}{dx} + 2xy$$

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

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

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

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

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

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

$$\frac{x^2(2x dx) + (1 + y) dy}{(y^3)^2} = 0$$

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

divide by y^2

$$2xy dx + dy - dy dy = 0$$

$$\therefore 2xy dx - dy dy = 0 \quad \text{ans.}$$

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

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

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

$$= -A \omega^2 x$$

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

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

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

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

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

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

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

$$= -\omega^2 x$$

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

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

$$y' = C + 2C \Rightarrow C = \frac{y' - 1}{2}$$

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

8. $y = \frac{1}{2} \ln x + \frac{1}{2}$; $\ln x$ is a parameter, so to be eliminated.

$$y' = \frac{1}{2x} \Rightarrow x = \frac{1}{2y'}$$

$$\therefore y = \frac{1}{2} \ln \left(\frac{1}{2y'}\right) + \frac{1}{2} \quad \text{ans.}$$

9. $y^3 = 4ax$

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

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

substitute

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

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

$$\therefore y^3 dx - 3y^2 dy = 0 \quad \text{ans.}$$

10. $y = 4x^2 + 3x + C$

$$y' = 8x + 3 \Rightarrow x = \frac{y' - 3}{8}$$

$$y = \frac{4}{8} (y' - 3)^2 + 3 \left(\frac{y' - 3}{8}\right) + C$$

$$y'' = 0$$

ans.

Rainville Solution Manual

Stanley M. Walas



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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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