

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

1. $x^2 - 2x^2y = c$
 $2x^2y - 2x^2y - 2y(2x)dy = 0$
 $2x^2dy - 4xydy - 2x^2ydy = 0$
 divide by $2x$
 $x^2dy - 2xydy - x^2ydy = 0$
 $\therefore (x+2y)dx - xdy = 0$ ans.

2. $y \sin x - xy^2 = 0$
 $y(\sin x dx) + (\sin x dy - xy^2 dy) = 0$
 $y^2 dx = 0$
 $y^2 dx + \sin x dy - xy^2 dy = 0$
 $y^2(dx + \sin x dy) + (-xy^2 dy) = 0$
 ans.

3. $x^2y = 1 + Cx$
 $x^2dy + 2xydx = 0 + Cdx$
 divide by dx
 $x^2 \frac{dy}{dx} + 2xy = C$

compare
 $x^2y = 1 + x^2 \frac{dy}{dx} + 2xy$
 $x^2y = 1 + x^2 \frac{dy}{dx} + 2xy$
 $x^2y dx + dx + x^2dy + 2xy dx = 0$
 $dx + x^2dy + 2xy dx = 0$
 $\therefore (x^2y + 1)dx + x^2dy = 0$ ans.

4. $cy^2 = x^2 + y$
 $\frac{x^2 + y}{y^2} = c$
 $\frac{x^2(dx + 2x) + (1 + y)dy}{(y^2)^2} = 0$
 $2xy^2 dx + x^2 dy + cy^2 dy - 2y^2 dy = 0$
 divide by y
 $2xy dx + x^2 dy + cy dy - 2y dy = 0$
 $\therefore 2xy dx - 2y dy + cy dy = 0$
 ans.

5. $x = A \sin(\omega t + \phi)$; ω is a parameter not to be elim.
 $\frac{dx}{dt} = A \omega \cos(\omega t + \phi)$
 $\frac{d^2x}{dt^2} = -A \omega^2 \sin(\omega t + \phi)$
 $= -A \omega^2 x$ (ans) (ans)
 but $x = A \sin(\omega t + \phi)$
 $\frac{d^2x}{dt^2} = -\omega^2 x$
 $\therefore \frac{d^2x}{dt^2} + \omega^2 x = 0$ ans.

6. $x = C_1 \cos(\omega t) + C_2 \sin(\omega t)$
 ω is a parameter.
 $\frac{dx}{dt} = -C_1 \omega \sin(\omega t) + C_2 \omega \cos(\omega t)$
 $\frac{d^2x}{dt^2} = -C_1 \omega^2 \cos(\omega t) - C_2 \omega^2 \sin(\omega t)$
 $= -\omega^2 (C_1 \cos(\omega t) + C_2 \sin(\omega t))$
 $= -\omega^2 x$
 $\therefore \frac{d^2x}{dt^2} + \omega^2 x = 0$ ans.

7. $y = Cx + C^2 + 1$
 $x^2 dx + 2Cxy + C^2 dy = 0$
 $\therefore y^2 dx + 2xy dy = 0$ ans.

8. $y = Cx + \frac{1}{C}$; C is a parameter, to be eliminated.
 $y^2 dx + 2xy dy = 0$
 $\therefore y^2 dx + 2xy dy = 0$ ans.

9. $y^2 = 4ax$
 $2y dy = 4a dx$
 $\therefore 2y = \frac{d(y^2)}{dx}$
 compare
 $y^2 = \left(\frac{d(y^2)}{dx} \right) x$
 $y^2 dx + 2xy dy = 0$
 $\therefore y^2 dx - 2xy dy = 0$ ans.

10. $y = Ax^2 + Bx + C$
 $y^2 = 2Ax + B + C$
 $y^2 - 2Ax = B + C$
 $y^2 = 0$ ans.

Rainville Solution Manual

CL Gary



Rainville Solution Manual:

This book delves into Rainville Solution Manual. Rainville Solution Manual is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Rainville Solution Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Rainville Solution Manual
- Chapter 2: Essential Elements of Rainville Solution Manual
- Chapter 3: Rainville Solution Manual in Everyday Life
- Chapter 4: Rainville Solution Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Rainville Solution Manual. This chapter will explore what Rainville Solution Manual is, why Rainville Solution Manual is vital, and how to effectively learn about Rainville Solution Manual.

3. In chapter 2, this book will delve into the foundational concepts of Rainville Solution Manual. This chapter will elucidate the essential principles that need to be understood to grasp Rainville Solution Manual in its entirety.

4. In chapter 3, this book will examine the practical applications of Rainville Solution Manual in daily life. The third chapter will showcase real-world examples of how Rainville Solution Manual can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Rainville Solution Manual in specific contexts. The fourth chapter will explore how Rainville Solution Manual is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Rainville Solution Manual. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Rainville Solution Manual.

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