

CHAPTER 1  
ELIMINATION OF ARBITRARY CONSTANTS

1.  $y^2 - 3xy = C$

$2x^2dx - 3x^2dy - 3y(2x)dx = 0$

$2x^2dx - 6xydx - 3x^2dy = 0$

divide by  $2x^2$ ,

$x - 3y + 6x^2 = 0$

$(x + 2y)dx - 3xydy = 0$  and

2. (1)  $x = A \sin(\omega t + \phi)$ ;  $y = B \sin(\omega t + \phi)$

(2)  $x = A \cos(\omega t + \phi)$

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

$y = B \cos(\omega t + \phi)$

$\frac{dy}{dt} = -B\omega \sin(\omega t + \phi)$

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

$\frac{dy}{dt} = -B\omega \sin(\omega t + \phi)$

$\therefore \frac{dx}{dt} + \frac{dy}{dt} = -A\omega^2 \sin^2(\omega t + \phi) - B\omega^2 \cos^2(\omega t + \phi) = 0$

3.  $y \ln x = x \ln y = 0$

$y(\ln x + 1) + \ln x \cdot dy - dy \cdot y = 0$

$-y^2dx = 0$

$y(\ln x + 1) + (\ln x + 1)y - y^2dx = 0$

and

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

$x^2dy + 2xydx = 0 + Cdx$

divide by  $x^2$ ,

$2ydx + 1 + Cx = 0$

Separately,

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

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

$x^2dy + 2xydx = dx + x^2dy + 2xy^2dx$

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

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

$(x^2y + 1)dx + x^2dy = 0$  and

5.  $x = C_1 \cos(\omega t) + C_2 \sin(\omega t)$

$y = \text{parameter}$

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

$\frac{dy}{dt} = \text{parameter} \times \cos(\omega t) + \text{parameter} \times \sin(\omega t)$

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

$\therefore \frac{dy}{dt} + \omega^2 x = 0$  and

6.  $y = Cx + C^2x^2$

$y' = C + 2Cx = 0 \quad \therefore C = 0$

$\therefore y = Cx + C^2x^2 = 0$  and

7.  $y = \ln x + \frac{b}{x}$   $\therefore$   $b$  is parameter,  
 $x$  is to be eliminated.

$y' = \frac{b}{x^2} + 0 \quad \therefore b = -y'x^2$

$\therefore y = \ln x + \frac{b}{x} = \ln x - y'x^2$  and

8.  $y^2 = 4ax$

$2ydy = 4adx$

$\therefore \frac{dy}{dx} = \frac{2a}{y}$  and

Separately,

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

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

$y^2 dy = 4a^2 dx \quad \therefore y^2 dy = 0$  and

9.  $y = ax^2 + bx + c$

$y' = 2ax + b = 0$

$\therefore 2ax = -b$

$\therefore y' = 0$

10.  $2xy^2 + y^2dy + 2xy^2dx + x^2dy = 0$

divide by  $2xy$ ,

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

$\therefore 2y + (2 - x^2)y^2dy = 0$

and

# Rainville Solution Manual

**Chao Zhang**

## Rainville Solution Manual:

*Ordinary Differential Equations and Their Solutions* George Moseley Murphy, 2011-01-01 This treatment presents most of the methods for solving ordinary differential equations and systematic arrangements of more than 2 000 equations and their solutions The material is organized so that standard equations can be easily found Plus the substantial number and variety of equations promises an exact equation or a sufficiently similar one 1960 edition *The American Mathematical Monthly*

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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

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

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