

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

**CHAPTER 1**  
**ELIMINATION OF ARBITRARY CONSTANTS**

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

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

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

4.  $cy^2 + x^2y$   
 $\frac{x^2y}{y^2} = c$   
 $\frac{x^2(xy dx - y^2 dy)}{y^3} = 0$   
 $2xy^2 dx + x^2 dy - 2xy^2 dy - 2y^3 dy = 0$   
 divide by  $y$   
 $2xy dx + x^2 dy - 2xy dy - 2y^2 dy = 0$   
 $\therefore 2xy dx - 2y^2 dy = 0$  ans.

5.  $x = A \sin(\omega t + \phi)$  ;  $\omega$  &  $\phi$  are parameters 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.  $x = C_1 \cos(\omega t) + C_2 \sin(\omega t)$   
 $\omega$  is a parameter.  
 $\frac{dx}{dt} = -C_1 \omega \sin(\omega t) + C_2 \omega \cos(\omega t)$   
 $\frac{d^2x}{dt^2} = -C_1 \omega^2 \cos(\omega t) - C_2 \omega^2 \sin(\omega t)$   
 $= -\omega^2 (C_1 \cos(\omega t) + C_2 \sin(\omega t))$   
 $= -\omega^2 x$   
 $\frac{d^2x}{dt^2} + \omega^2 x = 0$  ans.

7.  $y = ax + b + c$   
 $a^2x + c = 0 \therefore c = -a^2x$   
 $\therefore y = ax + b - a^2x$  ans.

8.  $y = a \ln x + \frac{b}{x}$  ;  $a$  &  $b$  are parameters, to be eliminated.  
 $y' = \frac{a}{x} - \frac{b}{x^2} \therefore ay' = \frac{a^2}{x} - \frac{ab}{x^2}$   
 $\therefore ay' + \frac{ab}{x^2} = \frac{a^2}{x}$  ans.

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

10.  $y = ax^2 + bx + c$   
 $y' = 2ax + b \therefore a = \frac{y' - b}{2}$   
 $y'' = 2a \therefore a = \frac{y''}{2}$   
 $y'' = 0$  ans.

# Rainville Solution Manual

**Shasha Hu**



## **Rainville Solution Manual:**

## Decoding **Rainville Solution Manual**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Rainville Solution Manual**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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