

CHAPTER 1  
ELIMINATION OF ARBITRARY CONSTANTS

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

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

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

divide by  $2x^2$ ,

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

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

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

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

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

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

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

$\frac{dy}{dx} = \frac{B\omega \cos(\omega t + \phi)}{A\omega \sin(\omega t + \phi)}$

$\frac{dy}{dx} = \frac{B}{A} \omega^2$

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

3.  $y \ln x = x \ln y + C$

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

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

divide by  $y(\ln x + \ln y)$  and

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

$x^2dy + 2xydx = C + Cx$

divide by  $x^2$ ,

$2ydx + \frac{C}{x^2} + Cx = 0$

divide by  $2y$ ,

$1 + \frac{C}{2y} + \frac{Cx}{2y} = 0$

$1 + x^2 \frac{dy}{dx} + Cx^2y = 0$

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

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

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

$(x^2 + Cx^2 + Cx^2)dy = 0$  and

5.  $xy^2 = x^2 + y$

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

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

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

divide by  $x^2$ ,

$y = Cx^2 + y = Cx^2y$

$\therefore y = Cx^2 + y = Cx^2y$

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

$2ydy = 2xdx$   
 $\therefore \frac{dx}{dy} = \frac{2y}{2x} = \frac{y}{x}$

divide by  $y^2$ ,

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

$y^2dx = x^2dy$

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

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

$y' = 2ax + b$  and

$y'' = 2a$  and

$y''' = 0$  and

# Rainville Solution Manual

**SB Merriam**

**Rainville Solution Manual:**

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*Notices of the American Mathematical Society* American Mathematical Society,1981      Technical Bulletin ,1962

Moody's Manual of Investments and Security Rating Service ,1927      **Ordinary Differential Equations and Their**

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