

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

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

$-y^2 dy = 0$

$y \ln x + x - y^2 \ln x + 2xy - 2y^2 \ln y = 0$

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

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

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

divide by  $x^2$ ,

$2ydx + 1 + Cx = 0$

Separately,

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

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

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

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

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

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

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

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

$\therefore y = Cx + (Cx)^2 = 0$  and

$\frac{dy}{dx} = Cx$

$\therefore \frac{dy}{dx} = -Cx^2 = 0$  and

$\therefore y = 0$

$\therefore y = Cx + 0 = Cx$  and

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

$\therefore y = Cx + \frac{C}{x}$  and

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

$\therefore y = Cx + 0 = Cx$  and

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$\therefore y = Cx + 0 = Cx$  and

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

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

$\frac{x^2}{x^2} \left[ \frac{y}{x^2} + \frac{1}{x^2} \right] - \left[ \frac{1}{x^2} + \frac{y}{x^2} \right] \frac{dy}{dx} = 0$

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

divide by  $x^2$ ,

$1 + y - \left( 1 + y \right) \frac{dy}{dx} = 0$

$1 + y - 1 - y - y \frac{dy}{dx} = 0$

divide by  $y$ ,

$1 - \frac{dy}{dx} = 0$

divide by  $1$ ,

$\frac{dy}{dx} = 1$

# Rainville Solution Manual

**SA Dillow**

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