

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

1. $x^2 - 2x^2y = c$

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

$$2x^2 dx - 4xy dx - 2x^2 dy = 0$$

divide by dx ,

$$2x^2 - 4xy - 2x^2 \frac{dy}{dx} = 0$$

$$\therefore (x + 2y) dx - x dy = 0 \quad \text{and}$$

2. $y \sin x - xy^2 = 0$

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

$$+ y^2 dx = 0$$

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

$$\therefore y(\cos x - y) dx + (\sin x - 2xy) dy = 0 \quad \text{and}$$

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

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

divide by dx ,

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

substitute

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

$$x^3 y = 1 + x^2 \frac{d^2 y}{dx^2} + 2x^2 y$$

$$x^3 y dx = dx + x^3 dy + 2x^3 y dx$$

$$dx + x^3 dy + 2x^3 y dx - x^3 y dx = 0$$

$$\therefore dx + x^3 dy + x^3 y dx = 0$$

$$\therefore (x^3 y + 1) dx + x^3 dy = 0 \quad \text{and}$$

4. $cy^3 = x^2 + y$

$$\frac{x^2 + y}{y^3} = C$$

$$\frac{x^2(2x dx) + (1 + y) dy}{(y^3)^2} = 0$$

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

divide by y ,

$$2xy dx + y dy - 2y dy - 2y dy = 0$$

$$\therefore 2xy dx - 2y dy = 0 \quad \text{and}$$

5. $x = A \sin(\omega t + \phi)$; ω is a parameter not to be elim.

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

$$\frac{d^2 x}{dt^2} = A \omega^2 [-\sin(\omega t + \phi)]$$

$$= -A \omega^2 \sin(\omega t + \phi)$$

$$\text{but } x = A \sin(\omega t + \phi)$$

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

$$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0 \quad \text{and}$$

6. $x = C_1 \cos \omega t + C_2 \sin \omega t$
Let ω be parameter.

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

$$\frac{d^2 x}{dt^2} = -C_1 \omega^2 \cos \omega t - C_2 \omega^2 \sin \omega t$$

$$= -\omega^2 (C_1 \cos \omega t + C_2 \sin \omega t)$$

$$= -\omega^2 x$$

$$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0 \quad \text{and}$$

7. $y = Cx + C^2 + 1$

$$y' = C + 2C \frac{dy}{dx} \quad \therefore C = y'$$

$$\therefore y = y'x + (y')^2 + 1 \quad \text{and}$$

8. $y = \sin x + \frac{1}{x^2}$; ω is a parameter, ω to be eliminated.

$$y' = \cos x - \frac{2}{x^3} \quad \therefore \cos x = y'$$

$$\therefore y = \sin x = \frac{dy}{dx} \quad \text{and}$$

9. $y^3 = 4ax$

$$3y^2 dy = 4a dx$$

$$\therefore dy = \frac{4a dx}{3y^2}$$

substitute,

$$y^3 = \left(\frac{4a dx}{3y^2} \right) x$$

$$y^5 dx = 4a x dy$$

$$\therefore y^5 dx - 4a x dy = 0 \quad \text{and}$$

10. $y = 4x^2 + 3x + C$

$$y' = 8x + 3 \quad \therefore 3 = y'$$

$$y^2 = 3x + C$$

$$y'' = 0$$

and

Rainville Solution Manual

Jianjun Gao



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