

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  $dx$ ,

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

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

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

$$y(\cos x dx) + \sin x dy - dy dy$$

$$- y^2 dx = 0$$

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

$$y(\cos x - y) dx + (\sin x - 2y) dy = 0 \quad \text{ans.}$$

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

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

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

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

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

$$\therefore dx + x^3 dy + x^2 y dx = 0$$

$$\therefore (x^2 y + 1) dx + x^3 dy = 0 \quad \text{ans.}$$

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

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

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

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

divide by  $dy$ ,

$$2xy^2 + x^2 + 1 - 2y^2 = 0$$

$$\therefore 2xy^2 + 1 - 2x^2 y^2 = 0 \quad \text{ans.}$$

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

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

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

$$x = A \sin(\omega t + \phi)$$

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

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

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

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

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

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

$$x = C_1 \cos \omega t + C_2 \sin \omega t$$

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

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

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

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

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

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

$$y' = \cos x - \frac{2}{x^3} \Rightarrow \omega = y'$$

$$\therefore y = \sin y' + \frac{1}{y'^3} \quad \text{ans.}$$

9.  $y^3 = 4ax$

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

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

substitute,

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

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

$$\therefore y^3 dx - 3a dy = 0 \quad \text{ans.}$$

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

$$y' = 8x + 3 \Rightarrow y = 0$$

$$y' = 8x + 3$$

$$y'' = 8 \quad \text{ans.}$$

# Rainville Solution Manual

**S Ben Porath**



## Rainville Solution Manual:

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