

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

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

$$2x^2y - 2x^2y - 2y(2xy) + c = 0$$

$$2x^2y - 4xy^2 - 2x^2y + c = 0$$

divide by $2x$.

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

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

2. $y \sin x - xy^2 + c$

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

$$\therefore y^2 dx = 0$$

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

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

ans.

3. $x^2y + 1 + c$

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

divide by dx .

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

multiply by x .

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

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

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

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

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

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

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

$$\frac{x^2 y}{y^2} = c$$

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

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

divide by y .

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

$$\therefore 2xy dx - x^2 y dy = 0$$

ans.

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

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

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

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

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

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

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

6. $x = C_1 \cos(\omega t) + C_2 \sin(\omega t)$; ω is a parameter.

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

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

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

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

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

7. $y = C_1 e^{2t} + C_2 e^{-2t}$

$$y' = 2C_1 e^{2t} - 2C_2 e^{-2t}$$

$$\therefore y'' = 4C_1 e^{2t} + 4C_2 e^{-2t}$$

8. $y = A e^{\frac{x}{2}}$; A is a parameter.

$$y' = \frac{A}{2} e^{\frac{x}{2}} \therefore \omega = y'$$

$$\therefore y'' = \frac{A}{4} e^{\frac{x}{2}} \quad \text{ans.}$$

9. $y^2 = 4ax$

$$2y dy = 4a dx$$

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

multiply by x .

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

$$y^2 dx = 2axy$$

$$\therefore y^2 dx - 2axy = 0 \quad \text{ans.}$$

10. $y = Ax^2 + Bx + C$

$$y' = 2Ax + B \therefore \omega = y'$$

$$y'' = 2A \therefore \omega'$$

$$y'' = 0 \quad \text{ans.}$$

Rainville Solution Manual

Sebastian Brünink



Rainville Solution Manual:

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