

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

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

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

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

divide by $2x$.

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

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

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

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

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

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

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

ans.

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

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

divide by dx .

$$\frac{d^2y}{dx^2} + 2xy = 0$$

multiply by x .

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

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

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

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

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

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

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

$$\frac{d^2y}{dx^2} + c = 0$$

$$\frac{d^2y}{dx^2} + c = 0 \implies \frac{d^2y}{dx^2} = -c$$

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

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

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

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

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

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

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The American Mathematical Monthly, 1981

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