

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

1. $x^2 - 2x^2y = c$
 $2x^2y - 2x^2y - 2y(2xy) = 0$
 $2x^2y - 4xy^2 - 2x^2y = 0$
 divide by $2x$
 $xy - 2y^2 - xy = 0$
 $\therefore (x-2y)dy - xdy = 0$ ans.

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

3. $x^2y = 1 + Cx$
 $x^2dy + 2xydx = 0 + Cdx$
 divide by dx
 $\frac{d^2y}{dx^2} + 2xy = C$

substitute
 $x^2y = 1 + x^2 \frac{dy}{dx} + 2xy$
 $x^2y = 1 + x^2 \frac{dy}{dx} + 2xy$
 $x^2y dx + 2x^2y dx + 2xy dx = 0$
 $dx + x^2dy + 2xy dx = 0$
 $\therefore (x^2y + 2xy)dx + x^2dy = 0$ ans.

4. $cy^2 = x^2 + y$
 $\frac{d^2y}{dx^2} = 2c$
 $\frac{d^2y}{dx^2} (2cx + y) - (2x^2) \frac{dy}{dx} = 0$
 $2cy^2 dx + 2y^2 dy - 2x^2 dy - 2y^2 dx = 0$
 divide by y
 $2cxy dx + 2y dy - 2x^2 dy - 2y dx = 0$
 $\therefore 2cxy dx - 2x^2 dy + 2y dy = 0$
 ans.

5. $x = A \sin(\omega t + \phi)$; ω & ϕ are parameters not to be elim.
 $\frac{dx}{dt} = A \omega \cos(\omega t + \phi)$
 $\frac{d^2x}{dt^2} = -A \omega^2 \sin(\omega t + \phi)$
 $= -A \omega^2 x$
 but $x = A \sin(\omega t + \phi)$
 $\frac{d^2x}{dt^2} = -\omega^2 x$
 $\therefore \frac{d^2x}{dt^2} + \omega^2 x = 0$ ans.

6. $x = C_1 \cos(\omega t) + C_2 \sin(\omega t)$
 ω is a parameter.
 $\frac{dx}{dt} = -C_1 \omega \sin(\omega t) + C_2 \omega \cos(\omega t)$
 $\frac{d^2x}{dt^2} = -C_1 \omega^2 \cos(\omega t) - C_2 \omega^2 \sin(\omega t)$
 $= -\omega^2 (C_1 \cos(\omega t) + C_2 \sin(\omega t))$
 $\frac{d^2x}{dt^2} = -\omega^2 x$
 $\therefore \frac{d^2x}{dt^2} + \omega^2 x = 0$ ans.

7. $y = Cx + C^2 + 1$
 $x^2 dx + 2Cxy dx + C^2 dx = 0$
 $\therefore y^2 dx + 2xy dx = 0$ ans.

8. $y = Cx + \frac{1}{C}$; C is a parameter, to be eliminated.
 $y^2 dx + 2xy dx = 0$
 $\therefore y^2 dx + 2xy dx = 0$ ans.

9. $y^2 = 4ax$
 $2y dy = 4a dx$
 $\therefore dy = \frac{2a dx}{y}$
 substitute,
 $y^2 = \left(\frac{2a dx}{y}\right) x$
 $y^3 dx = 2axy$
 $\therefore y^3 dx - 2axy = 0$ ans.

10. $y = Ax^2 + Bx + C$
 $y^2 = 2Ax + B + C$
 $y^2 - 2Ax = B + C$
 $y^2 = 0$ ans.

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