

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

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

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

3. $x^2y + 1 + c$
 $x^2 dy + 2xy dx = 0 + 1 dx$
 divide by dx
 $x^2 \frac{dy}{dx} + 2xy = 1$

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

4. $cy^2 + x^2y$
 $\frac{x^2y}{y^2} = c$
 $\frac{x^2(dx + ydy) - (x^2)dy}{(y^2)^2} = 0$
 $2xy^2 dx + x^2 dy - 2xy^2 dy - 2y^3 dy = 0$
 divide by y
 $2xy dx + x^2 dy - 2xy dy - 2y^2 dy = 0$
 $\therefore 2xy dx - 2x^2 dy + 2y^2 dy = 0$
 ans.

5. $x = A \sin(\omega t + \phi)$; ω is a parameter not to be elim.
 $\frac{dx}{dt} = A \omega \cos(\omega t + \phi)$
 $\frac{d^2x}{dt^2} = -A \omega^2 \sin(\omega t + \phi)$
 $= -A \omega^2 x$ (ans) (ans)
 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.
 $\frac{dx}{dt} = -C_1 \omega \sin(\omega t) + C_2 \omega \cos(\omega t)$
 $\frac{d^2x}{dt^2} = -C_1 \omega^2 \cos(\omega t) - C_2 \omega^2 \sin(\omega t)$
 $= -\omega^2 (C_1 \cos(\omega t) + C_2 \sin(\omega t))$
 $= -\omega^2 x$
 $\therefore \frac{d^2x}{dt^2} + \omega^2 x = 0$ ans.

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

8. $y = C_1 e^{\frac{t}{2}} + C_2 e^{-\frac{t}{2}}$; ω is a parameter, to be eliminated.
 $y' = \frac{1}{2} C_1 e^{\frac{t}{2}} - \frac{1}{2} C_2 e^{-\frac{t}{2}}$
 $\therefore y'' = \frac{1}{4} C_1 e^{\frac{t}{2}} + \frac{1}{4} C_2 e^{-\frac{t}{2}}$ ans.

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

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

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