

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

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

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

3. $x^2y + 1/cx$
 $x^2y + 2xy^2 = c + c/x$
 divide by dx
 $\frac{d^2y}{dx^2} + 2xy = c$

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

4. $cy^2 = x^2 + y$
 $\frac{x^2 + y}{y^2} = c$
 $\frac{x^2(2x dx) + (1 + y) dy}{(y^2)^2} = 0$
 $2xy^2 dx + x^2 dy + y dy - 2y^2 dy = 0$
 divide by y
 $2xy dx + x^2 dy + dy - 2y dy = 0$
 $\therefore 2xy dx - 2y dy + dy = 0$
 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.
 $\frac{dx}{dt} = -C_1 \omega \sin(\omega t) + C_2 \omega \cos(\omega t)$
 $\frac{d^2x}{dt^2} = -C_1 \omega^2 \cos(\omega t) - C_2 \omega^2 \sin(\omega t)$
 $= -\omega^2 (C_1 \cos(\omega t) + C_2 \sin(\omega t))$
 $\frac{d^2x}{dt^2} = -\omega^2 x$
 $\therefore \frac{d^2x}{dt^2} + \omega^2 x = 0$ ans.

7. $y = C_1 e^{2t} + C_2 e^{-2t}$
 $y^2 = C_1^2 e^{4t} + C_2^2 e^{-4t}$
 $\therefore y^2 = C_1^2 e^{4t} + C_2^2 e^{-4t}$ ans.

8. $y = C_1 e^{2t} + C_2 e^{-2t}$; ω is a parameter, to be eliminated.
 $y^2 = C_1^2 e^{4t} + C_2^2 e^{-4t}$
 $\therefore y^2 = C_1^2 e^{4t} + C_2^2 e^{-4t}$ ans.

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

10. $y = Ax^2 + Bx + C$
 $y^2 = A^2 x^4 + 2ABx^3 + B^2 x^2 + 2BCx + C^2$
 $y^2 = 2A^2 x^2 + C^2$
 $y^2 = 0$ ans.

Rainville Solution Manual

Jianjun Gao



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