

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

1. $y^2 - 3xy = C$

$2x^2dx - 3x^2dy - 3y(2x)dx = 0$

$2x^2dx - 6xydx - 3x^2dy = 0$

divide by $2x^2$,

$x - 3y + 6x^2 = 0$

$(x + 2y)dx - 3xydy = 0$ and

2. (1) $x = A \sin(\omega t + \phi)$; $y = B \sin(\omega t + \phi)$

(2) $x = A \cos(\omega t + \phi)$

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

$y = B \cos(\omega t + \phi)$

$\frac{dy}{dt} = -B\omega \sin(\omega t + \phi)$

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

$\frac{dy}{dt} = -B\omega \sin(\omega t + \phi)$

$\therefore \frac{dx}{dt} + \frac{dy}{dt} = -A\omega^2 \sin^2(\omega t + \phi) - B\omega^2 \cos^2(\omega t + \phi) = 0$

3. $y \ln x = x \ln y = 0$

$y(\ln x + 1) + \ln x \cdot dy - dy \cdot y = 0$

$-y^2dx = 0$

$y(\ln x + 1) + (\ln x + 1)y - y^2 = 0$

and

4. $x^2y = 1 + Cx$

$x^2dy + 2xydx = 0 + Cdx$

divide by x^2 ,

$2ydx + 2x^2y^2 = C$

Separately,

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

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

$x^2dy + 2xydx = dx + x^2dy + 2x^2ydx$

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

$dx + x^2dy = 0$

$(x^2y + 1)dx + x^2dy = 0$ and

5. $x = C_1 \cos(\omega t) + C_2 \sin(\omega t)$

$y = \text{parameter}$

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

$\frac{dy}{dt} = \text{parameter} \times \cos(\omega t) + \text{parameter} \times \sin(\omega t)$

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

$\therefore \frac{dy}{dt} + \omega^2 x = 0$ and

6. $y = C_1 x + C_2 x^2$

$y' = C_1 + 2Cx$

$y = y^2 + (2Cx)^2 + C$ and

7. $y = \frac{dx}{dt} + \frac{1}{x}$ is parameter,
so x is eliminated.

$y = \frac{dx}{dt} + \frac{1}{x}$

$y = x \frac{dy}{dx} + \frac{1}{x}$ and

8. $y^2 = 4ax$

$2ydy = 4adx$

$\frac{2y^2}{dx} = \frac{4a}{x}$

Separately,

$y^2 = \left(\frac{4a}{x} \right) x$

$y^2dx = 4ax^2$

$y^2dx - 4ax^2 = 0$ and

9. $y = 2x^2 + 3x + C$

$y' = 4x + 3$

$y' = 2x + 3$

$y^2 = 4x^2$

10. $xy^2 = x^2 + y$

$\frac{2xy^2 + 2y^3}{dx} = 2x$

$\frac{2y^2}{dx} + \frac{3y^2}{x} = 2x$

$2y^2dx + 3y^2 = 2x^2$

$2y^2dx + 3y^2 = 2x^2$

$2y^2dx = 2x^2 - 3y^2$

Rainville Solution Manual

Wolfgang Guggemos

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