

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

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

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

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

divide by $2x^2$,

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

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

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

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

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

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

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

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

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

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

3. $y \ln x = x y^2 + C$

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

$-y^2 dy = 0$

$y \ln x + x + y^2 \ln x + 2y^2 dy = 0$

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

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

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

divide by x^2 ,

$2ydx + 2x^2y^2 + Cx = 0$

Separately,

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

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

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

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

$dx + x^2dy = 0$

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

5. $y = Cx + C^2x^2$

$y' = C + 2Cx = 0 \quad \therefore C = 0$

$\therefore y = Cx + C^2x^2 = 0$ and

$\frac{dy}{dx} = C + 2Cx$

$\frac{dy}{dx} = 0 + 2Cx = 2Cx$ and

6. $y = \tan x + \frac{b}{x}$ (b is parameter,

b to be eliminated).

$y' = \sec^2 x - \frac{b}{x^2}$

$\therefore y' = \sec^2 x + \frac{b}{x^2}$ and

7. $y^2 = 4ax$

$2ydy = 4adx$

$\therefore \frac{dy}{dx} = \frac{2a}{y}$
Separately,

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

$y^2 dy = 4a^2 x$

$y^2 dy = 4a^2 dx \quad \therefore y^2 dy = 0$ and

8. $y = ax^2 + bx + c$

$y' = 2ax + b = 0$

$\therefore 2ax = -b$

$\therefore y' = 0$

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

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

$\frac{x^2}{x^2} + \frac{y}{x^2} = y \quad \therefore \frac{dy}{dx} = \frac{1}{x^2}$

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

divide by x^2 ,

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

$y^2 dx + (y^2 - yx^2)dy = 0$
and

Rainville Solution Manual

Stanley M. Walas

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, 1981 *Subject Catalog of the Institute of Governmental Studies Library, University of California, Berkeley* University of California, Berkeley. Institute of Governmental Studies. Library, 1971

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Technical Bulletin, 1962 **Clearwater National Forest (N.F.), Van Camp Timber Sales and Winter Range**

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