

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

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

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

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

divide by $2x^2$,

$x^2 - 3y - 3ydx = 0$

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

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

② $x = A \cos(\omega t + \phi)$

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

$y = B \sin^2(\omega t + \phi)$

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

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

$\frac{dy}{dx} = \frac{B\omega \cos(\omega t + \phi)}{B \sin(\omega t + \phi)} = \omega$

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

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

$-y^2 dy = 0$

$y \ln x + C = y^2 \ln x + 2y^2 dy - 2y^2 dy$

$y \ln x + C = (2y - 2y^2) dy$ and

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

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

divide by x^2 ,

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

Separate,

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

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

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

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

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

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

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

$y' = C + 2Cx = 1 + x^2y^2$
 $y = y^2 + (xy)^2 + 1$ and

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

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

7. $y^2 = 4ax$

$2ydy = 4adx$
 $y = \frac{2a}{x}$

Separate,

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

$y^2dx = 4a^2dx$

$y^2dx = 4a^2dx + 4a^2y^2dx$ and

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

$y' = 2ax + b = 0$

$y'' = 2a = 0$

$y''' = 0$ and

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

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

$\frac{x^2(y^2 + y)}{x^2} = 1$
 $y^2 + y = x^2$

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

divide by y^2 ,

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

$2ydx + (2 - x^2)dy = 0$ and

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

$y' = 2ax + b = 0$

$y'' = 2a = 0$

$y''' = 0$ and

Rainville Solution Manual

George Moseley Murphy

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Notices of the American Mathematical Society American Mathematical Society, 1981

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