

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

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

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

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

divide by $2x^2$,

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

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

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

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

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

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

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

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

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

$\frac{dx}{dt} + \frac{dy}{dt} + A\omega^2 y = 0$ and

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

$y(x) + \ln x \cdot dy - 2xydx = 0$

$y(x) + dy = x^2 + 2xydx$

$y(x) + dy = (x^2 + 2xy)dx$

and

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

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

divide by x^2 ,

$2ydx + 1 + Cdx = 0$

Separately,

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

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

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

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

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

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

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

$y' = C + 2Cx = 0 \Rightarrow C = 0$

$y = Cx + (Cx)^2 = 0$ and

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

$y' = \frac{1}{x} + 2Cx = 0 \Rightarrow C = 0$

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

7. $y = \ln x + \frac{C}{x}$ is a parameter,
so C is to be eliminated.

$y' = \frac{1}{x} + \frac{C}{x^2} = 0 \Rightarrow C = x^2$

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

8. $y^2 = 4ax$

$2ydy = 4adx$
 $\frac{2ydy}{4a} = \frac{dx}{dx}$

Separately,

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

$y^2dx = 2ydx$

$y^2dx = 2ydy + C$

$y^2 = 2y + C$

$y^2 = 0$

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

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

$\frac{x^2 + y}{x^2} \left[x^2 dy + y(2x)dx - x^2 dy \right] = 0$

divide by x^2 ,

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

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

$(x^2 + 2xy)dx = 0$ and

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

$y' = 2ax + b = 0$

$y' = 0$

$y^2 = 0$

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