

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  $2x^2$ ,

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

$(x + 6x^2y)dx - 3ydy = 0$  and

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

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

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

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

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

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

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

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

$y(\ln x + \ln y) + \ln x \cdot dy - dy \cdot \ln y$

$= y^2 \ln y = 0$

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

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

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

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

divide by  $x^2$ ,

$2ydx + \frac{C}{x^2} + \frac{C}{x} = 0$

Separate,

$2ydx = -\left(\frac{C}{x^2} + \frac{C}{x}\right)dx$

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

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

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

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

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

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

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

$\frac{x^2(x^2 + y) - (x^2 + y)x^2}{(x^2)^2} = 0$

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

divide by  $x^2$ ,

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

$2y^2dx = 0$  and

$y^2 = 0$  and

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

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

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

7.  $y = \frac{1}{2}x + \frac{1}{2}x^2$  is a parameter,  
so  $x$  is eliminated.

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

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

8.  $y^2 = 4ax$

$2ydy = 4adx$

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

Separate,

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

$y^2dx = 2ydx$

$y^2dx - 2ydx = 0$

$y^2 = 2y$

$y^2 = 0$  and

$y^2 = 0$  and

# Rainville Solution Manual

**Joacim Rocklöv**

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