

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

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

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

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

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

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

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

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

$= y^2 \ln y = 0$

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

$y(\ln x + \ln y) + (\ln x - \ln y)x y = 0$  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,

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

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

$x^2y + x^2y' = x^2y + 2xy - x^2y = 0$

$x^2y + x^2y' = x^2y + x^2y = 0$

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

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

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

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

$x^2y^2 + y^2 = 2x^2y$

divide by  $y^2$ ,

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

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

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

6.  $y^2 = 4ax$

$2yy' = 4a$

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

Separate,

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

$y^2 dy = 8ay$

$y^2 dy - 8ay = 0$  and

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

$y' = 2ax + b$

$y'' = 2a$

$y'' = 0$  and

# Rainville Solution Manual

**United States. National Labor  
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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

**Decisions and Orders of the National Labor**

**Relations Board** United States. National Labor Relations Board, 2007 Decisions and Orders of the National Labor Relations Board, V. 345, August 19 Through December 9, 2005, **Moody's Manual of Railroads and**

**Corporation Securities**, 1914 Notices of the American Mathematical Society American Mathematical Society, 1981

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