

CHAPTER 1  
ELIMINATION OF ARBITRARY CONSTANTS

1.  $x^2 - 2x^2y = c$

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

$2x^2 dx - 4xy dx - 2x^2 dy = 0$

divide by  $2x^2$

$dx - 2y dx - dy = 0$

$\therefore (1 - 2y) dx - dy = 0$  and

2.  $y \sin x - xy^2 = 0$

$y(\sin x dx) + \sin x dy - 2xy dy = 0$

$\therefore y^2 dx = 0$

$y(\sin x dx) - y^2 dx + \sin x dy - 2xy dy = 0$

$y(\sin x - y^2) dx + (\sin x - 2xy) dy = 0$  and

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

$x^2 dy + 2xy dx = 0 + C dx$

divide by  $dx$

$\frac{d^2 y}{dx^2} + 2xy = C$

substitute

$x^2 y = 1 + Cx$

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

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

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

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

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

4.  $cy^2 = x^2 + y$

$\frac{y^2}{y^3} = C$

$\frac{y^2(2y dy) - (x^2 + y)dy}{(y^3)^2} = 0$

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

divide by  $y^2$

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

$\therefore 2xy dx - y^2 dy = 0$  and

5.  $x = A \sin(\omega t + \phi)$ ;  $\omega$  is a parameter not to be elim.

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

$\frac{d^2 x}{dt^2} = A \omega^2 \sin(\omega t + \phi)$

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

but  $x = A \sin(\omega t + \phi)$

$\frac{d^2 x}{dt^2} = -\omega^2 x$

$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0$  and

6.  $x = C_1 \cos \omega t + C_2 \sin \omega t$   
Let  $\omega$  be parameter.

$\frac{dx}{dt} = -C_1 \omega \sin \omega t + C_2 \omega \cos \omega t$

$\frac{d^2 x}{dt^2} = -C_1 \omega^2 \cos \omega t - C_2 \omega^2 \sin \omega t$

$x = C_1 \cos \omega t + C_2 \sin \omega t$

$\frac{d^2 x}{dt^2} = -\omega^2 x$

$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0$  and

7.  $y = Cx + C^2 + 1$

$y^2 = C^2 + 2C + 1$   $\therefore C = y^2$

$\therefore y = y^2 + C^2 + 1$  and

8.  $y = mx + \frac{1}{m}$ ;  $m$  is a parameter, to be eliminated.

$y' = m + 0$   $\therefore m = y'$

$\therefore y = y'x + \frac{1}{y'}$  and

9.  $y^2 = 4ax$

$2y dy = 4a dx$

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

substitute

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

$y^3 dx = 2axy$

$\therefore y^2 dx - 2axy = 0$  and

10.  $y = 4x^2 + 3x + C$

$y' = 8x + 3$   $\therefore x = \frac{y' - 3}{8}$

$y = 4x^2 + 3x + C$

$y'' = 8$  and

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**D Kirk**



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