

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

**CHAPTER 1**  
**ELIMINATION OF ARBITRARY CONSTANTS**

1.  $x^2 - 2x^2y + c$   
 $2x^2y - 2x^2y - 2y(2x^2y) = c$   
 $2x^2y - 4xy^2 - 2x^2y = c$   
 divide by  $2x$   
 $xy - 2y^2 - xy = c/x$   
 $\therefore (x-2y)y - xy = c/x$  ans.

2.  $y \sin x - xy^2 + c$   
 $y(\cos x dx) + (dx dy - dy^2) = c$   
 $y^2 dx = c$   
 $y^2 dx + y^2 dx = dx dy - dy^2 + c$   
 $y^2 dx + y^2 dx = (dx - 2xy) dy + c$   
 ans.

3.  $x^2y + 1/cx$   
 $x^2y + 2xy dx = c + c dx$   
 divide by  $dx$   
 $\frac{d^2y}{dx^2} + 2xy = c$

substitute  
 $x^2y = 1 + x^2 \frac{dy}{dx} + 2xy$   
 $x^2y = 1 + x^2 \frac{dy}{dx} + 2xy$   
 $x^2 y dx = dx + x^2 dy + 2xy dx$   
 $dx + x^2 dy + 2xy dx = x^2 y dx$   
 $\therefore (x^2y - 1) dx + x^2 dy = 0$  ans.

4.  $cy^2 = x^2 + y$   
 $\frac{x^2 + y}{y^2} = c$   
 $\frac{x^2(dx + dy) - (x^2 + y)dy}{y^3} = 0$   
 $2xy^2 dx + x^2 dy - 2xy^2 dy - y^2 dy = 0$   
 divide by  $y$   
 $2xy dx + x^2 dy - 2xy dy - y dy = 0$   
 $\therefore 2xy dx - y dy = 0$  ans.

5.  $x = A \sin(\omega t + \phi)$  ;  $\omega$  &  $\phi$  are parameters not to be elim.  
 $\frac{dx}{dt} = A \omega \cos(\omega t + \phi)$   
 $\frac{d^2x}{dt^2} = -A \omega^2 \sin(\omega t + \phi)$   
 $= -A \omega^2 x$  (ans) (ans)  
 but  $x = A \sin(\omega t + \phi)$   
 $\frac{d^2x}{dt^2} = -\omega^2 x$   
 $\therefore \frac{d^2x}{dt^2} + \omega^2 x = 0$  ans.

6.  $x = C_1 \cos(\omega t) + C_2 \sin(\omega t)$   
 ;  $\omega$  a parameter.  
 $\frac{dx}{dt} = -C_1 \omega \sin(\omega t) + C_2 \omega \cos(\omega t)$   
 $\frac{d^2x}{dt^2} = -C_1 \omega^2 \cos(\omega t) - C_2 \omega^2 \sin(\omega t)$   
 $= -\omega^2 (C_1 \cos(\omega t) + C_2 \sin(\omega t))$   
 $= -\omega^2 x$   
 $\therefore \frac{d^2x}{dt^2} + \omega^2 x = 0$  ans.

7.  $y = Cx + C^2 + c$   
 $x^2 dx + c dx = 0 \therefore C dy$   
 $\therefore y^2 dy + 2xy dx = 0$  ans.

8.  $y = Cx + \frac{c}{x}$  ;  $c$  a parameter, to be eliminated.  
 $y' = C - \frac{c}{x^2} \therefore C = y' + \frac{c}{x^2}$   
 $\therefore y = (y' + \frac{c}{x^2})x + \frac{c}{x}$  ans.

9.  $y^2 = 4ax$   
 $2y dy = 4a dx$   
 $\therefore 2y = \frac{d^2y}{dx^2} x$   
 substitute,  
 $y^2 = \left(\frac{d^2y}{dx^2} x\right) x$   
 $y^2 dx = 2x dy$   
 $\therefore y^2 dx - 2xy dy = 0$  ans.

10.  $y = Ax^2 + Bx + C$   
 $y' = 2Ax + B = 0$   
 $y'' = 2A = 0$   
 $y''' = 0$  ans.

# Rainville Solution Manual

**R Barnett**



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