

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

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

1.  $x^2 - 2x^2y + c$   
 $2x^2dx - 2x^2dy - 2y(2x)dx = 0$   
 $2x^2dx - 4xydx - 2x^2dy = 0$   
 divide by  $2x$   
 $x dx - 2y dx - x dy = 0$   
 $\therefore (x-2y)dx - x dy = 0$  ans.

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

3.  $x^2y + 1 + c$   
 $x^2dy + 2xydx = 0 + 1 dx$   
 divide by  $dx$   
 $x^2 \frac{dy}{dx} + 2xy = 1$

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

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

5.  $x = A \sin(\omega t + \phi)$  ;  $\omega$  is a parameter not to be elim.  
 $\frac{dx}{dt} = A \omega \cos(\omega t + \phi)$   
 $\frac{d^2x}{dt^2} = -A \omega^2 \sin(\omega t + \phi)$   
 $= -A \omega^2 x$  (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.  $x = C_1 \cos(\omega t) + C_2 \sin(\omega t)$   
 $\omega$  is 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.  $y = Cx + C^2 + c$   
 $x^2 dx + 2Cxy dx + 2C^2 dx = 0$   
 $\therefore y^2 dx + 2xy dx = 0$  ans.

8.  $y = Cx + \frac{1}{C}$  ;  $C$  is a parameter, to be eliminated.  
 $y' = C + 0 \therefore C = y'$   
 $\therefore y = y'x + \frac{1}{y'}$  ans.

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

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

# Rainville Solution Manual

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