

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

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

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

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

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

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

4.  $cy^2 = x^2 + y$   
 $\frac{x^2 + y}{y^2} = c$   
 $\frac{x^2(2x dx) + (1 + y) dy}{(y^2)^2} = 0$   
 $2xy^2 dx + x^2 dy + y dy - 2y^3 dy = 0$   
 divide by  $y$   
 $2xy dx + x^2 dy + dy - 2y^2 dy = 0$   
 $\therefore 2xy dx - 2y^2 dy + dy = 0$   
 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.  $y = C_1 e^{2t} + C_2 e^{-2t}$   
 $y' = 2C_1 e^{2t} - 2C_2 e^{-2t}$   
 $\therefore y'' = 4C_1 e^{2t} + 4C_2 e^{-2t}$  ans.

8.  $y = C_1 e^{\frac{t}{2}} + C_2 e^{-\frac{t}{2}}$  ;  $\omega$  is a parameter, to be eliminated.  
 $y' = \frac{1}{2} C_1 e^{\frac{t}{2}} - \frac{1}{2} C_2 e^{-\frac{t}{2}}$   
 $\therefore y'' = \frac{1}{4} C_1 e^{\frac{t}{2}} + \frac{1}{4} C_2 e^{-\frac{t}{2}}$  ans.

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

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

# Rainville Solution Manual

**Yi-Tong Ma**



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