

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

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

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

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

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

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

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

# Rainville Solution Manual

**G Orfield**



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