

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

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

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

4.  $cy^2 + x^2y$   
 $\frac{x^2 y}{y^2} = c$   
 $\frac{x^2 (2xy dx + y^2 dy) - (x^2 y)^2}{(y^2)^2} = 0$   
 $2xy^2 dx + x^2 dy - 2xy^2 dy - 2x^2 y dx = 0$   
 divide by  $y$   
 $2xy dx + x^2 dy - 2xy dy - 2x^2 dx = 0$   
 $\therefore 2xy dx - 2x^2 dx + x^2 dy = 0$   
 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.  $x = C_1 \cos(\omega t) + C_2 \sin(\omega t)$   
 ;  $\omega$  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.  $y = c_1 x^2 + c_2^2 + c$   
 $x^2 dx + 2c_1 x dx = 0 + c_2 dy$   
 $\therefore y^2 dx + 2xy dx = c_2 dy$  ans.

8.  $y = a x + \frac{b}{x}$  ;  $a$  &  $b$  parameters, to be eliminated.  
 $y' = a - \frac{b}{x^2} \therefore a x^2 = y' x^2 + \frac{b}{x}$   
 $\therefore y' x^2 + \frac{b}{x} = a x^2$  ans.

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

10.  $y = ax^2 + bx + c$   
 $y' = 2ax + b \therefore b = y' - 2ax$   
 $y'' = 2a \therefore a = \frac{y''}{2}$   
 $y'' = 0$  ans.

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**George Moseley Murphy**



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1. Understanding the eBook Rainville Solution Manual
  - The Rise of Digital Reading Rainville Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Rainville Solution Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Rainville Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Rainville Solution Manual
  - Personalized Recommendations
  - Rainville Solution Manual User Reviews and Ratings
  - Rainville Solution Manual and Bestseller Lists
5. Accessing Rainville Solution Manual Free and Paid eBooks
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  - Rainville Solution Manual eBook Subscription Services
  - Rainville Solution Manual Budget-Friendly Options
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  - Rainville Solution Manual Enhanced eBook Features
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    - Adjustable Fonts and Text Sizes of Rainville Solution Manual
    - Highlighting and Note-Taking Rainville Solution Manual
    - Interactive Elements Rainville Solution Manual
  8. Staying Engaged with Rainville Solution Manual
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Rainville Solution Manual
  9. Balancing eBooks and Physical Books Rainville Solution Manual
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Rainville Solution Manual
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Rainville Solution Manual
    - Setting Reading Goals Rainville Solution Manual
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Rainville Solution Manual
    - Fact-Checking eBook Content of Rainville Solution Manual
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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