

CHAPTER 1  
ELIMINATION OF ARBITRARY CONSTANTS

1.  $x^2 - 2x^2y = c$

$$2x^2 dx - 2x^2 dy - 2y(2x) dx = 0$$

$$2x^2 dx - 4xy dx - 2x^2 dy = 0$$

divide by  $dx$ ,

$$2x^2 - 4xy - 2x^2 \frac{dy}{dx} = 0$$

$$\therefore (x + 2y) dx - x dy = 0 \quad \text{ans.}$$

2.  $y \sin x - xy^2 = 0$

$$y(\cos x dx) + \sin x dy - dy dy$$

$$- y^2 dx = 0$$

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

$$y(\cos x - y) dx + (\sin x - 2y) dy = 0 \quad \text{ans.}$$

3.  $x^2 y = 1 + Cx$

$$x^2 dy + 2xy dx = 0 + C dx$$

divide by  $dx$ ,

$$\frac{d^2 y}{dx^2} + 2xy = C$$

substitute

$$x^2 y = 1 + Cx \Rightarrow \left[ x^2 \frac{d^2 y}{dx^2} + 2xy \right] x$$

$$x^3 y = 1 + x^2 \frac{d^2 y}{dx^2} + 2x^2 y$$

$$x^3 y dx = dx + x^3 dy + 2x^3 y dx$$

$$dx + x^3 dy + 2x^3 y dx - x^3 y dx = 0$$

$$\therefore dx + x^3 dy + x^3 y dx = 0$$

$$\therefore (x^3 y + 1) dx + x^3 dy = 0 \quad \text{ans.}$$

4.  $cy^3 = x^2 + y$

$$\frac{x^2 + y}{y^3} = C$$

$$\frac{x^2(2x dx) + (1 + y) dy}{(y^3)^2} = 0$$

$$2xy^2 dx + y^2 dy + dy dy - 2y^2 dy = 0$$

divide by  $y$ ,

$$2xy dx + y dy - dy dy - 2y dy = 0$$

$$\therefore 2xy dx - 2y dy = 0 \quad \text{ans.}$$

5.  $x = A \sin(\omega t + \phi)$ ;  $\omega$  is a parameter not to be elim.

$$\frac{dx}{dt} = A \omega \cos(\omega t + \phi)$$

$$\frac{d^2 x}{dt^2} = A \omega^2 [-\sin(\omega t + \phi)]$$

$$= -A \omega^2 \sin(\omega t + \phi)$$

$$\text{but } x = A \sin(\omega t + \phi)$$

$$\frac{d^2 x}{dt^2} = -\omega^2 x$$

$$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0 \quad \text{ans.}$$

6.  $x = C_1 \cos \omega t + C_2 \sin \omega t$   
Let  $\omega$  be parameter.

$$\frac{dx}{dt} = -C_1 \omega \sin \omega t + C_2 \omega \cos \omega t$$

$$\frac{d^2 x}{dt^2} = -C_1 \omega^2 \cos \omega t - C_2 \omega^2 \sin \omega t$$

$$= -\omega^2 (C_1 \cos \omega t + C_2 \sin \omega t)$$

$$= -\omega^2 x$$

$$\therefore \frac{d^2 x}{dt^2} + \omega^2 x = 0 \quad \text{ans.}$$

7.  $y = Cx + C^2 + 1$

$$y' = C + 2C \frac{dy}{dx} \quad \therefore C = y'$$

$$\therefore y = y'x + (y')^2 + 1 \quad \text{ans.}$$

8.  $y = mx + \frac{1}{m^2}$ ;  $m$  is a parameter, so to be eliminated.

$$y' = m + 0 \quad \therefore m = y'$$

$$\therefore y = y'x + \frac{1}{y'^2} \quad \text{ans.}$$

9.  $y^3 = 4ax$

$$3y^2 dy = 4a dx$$

$$\therefore \frac{dy}{dx} = \frac{4a}{3y^2}$$

substitute,

$$y^3 = \left( \frac{4a}{3y^2} \right)^2 x$$

$$y^3 dx = 3a dy$$

$$\therefore y^3 dx - 3a dy = 0 \quad \text{ans.}$$

10.  $y = 4x^2 + bx + c$

$$y' = 8x + b + 0$$

$$y'' = 8 + 0$$

$$y'' = 8 \quad \text{ans.}$$

# Rainville Solution Manual

**VM Jensen**



## Rainville Solution Manual:

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linear finite difference equations of any order with constant coefficients The unforced and forced solutions of i ii iii are examples of some general properties of ordinary differential equations The second chapter applies the theory of the first chapter to linear second order oscillators with one degree of freedom such as the mechanical mass damper spring force system and the electrical self resistor capacitor battery circuit In both cases are treated free undamped damped and amplified oscillations also forced oscillations including beats resonance discrete and continuous spectra and impulsive inputs Describes general properties of differential and finite difference equations with focus on linear equations and constant and some power coefficients Presents particular and general solutions for all cases of differential and finite difference equations Provides complete solutions for many cases of forcing including resonant cases Discusses applications to linear second order mechanical and electrical oscillators with damping Provides solutions with forcing including resonance using the characteristic polynomial Green s functions trigonometrical series Fourier integrals and Laplace transforms

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