

ELIMINATION OF ARBITRARY CONSTANTS AND FAMILY OF CURVES

CHAPTER 1
ELIMINATION OF ARBITRARY CONSTANTS

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

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

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

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

4. $cy^2 = x^2 + y$
 $\frac{x^2 + y}{y^2} = c$
 $\frac{x^2(dx + dy) - (x^2 + y)dy}{y^3} = 0$
 $2xy^2 dx + y^2 dy - 2xy^2 dy - y^3 dy = 0$
 divide by y
 $2xy dx + y dy - 2xy dy - y^2 dy = 0$
 $\therefore 2xy dx - y^2 dy = 0$ ans.

5. $x = A \sin(\omega t + \phi)$; ω 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. $x = C_1 \cos(\omega t) + C_2 \sin(\omega t)$
 ω 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. $y = cx + c^2 + c$
 $x^2 dx + 2cxy + c^2 dy = 0$
 $\therefore y^2 dy + 2xy^2 dx = 0$ ans.

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

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

10. $y = ax^2 + bx + c$
 $y' = 2ax + b + 0$
 $y'' = 2a + 0$
 $y'' = 0$ ans.

Rainville Solution Manual

Rachel S Tattersall



Rainville Solution Manual:

Rainville Solution Manual Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Rainville Solution Manual**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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