

## Elimination of Arbitrary Constants

Problem 01

$$x^3 - 3x^2y = c$$

Solution 01

$$x^3 - 3x^2y = c$$

$$3x^2 \, dx - 3(2xy \, dx + x^2 \, dy) = 0$$

$$3x^2 \, dx - 6xy \, dx - 3x^2 \, dy = 0$$

Divide by 3x

$$x \, dx - 2y \, dx - x \, dy = 0$$

$$(x - 2y) \, dx - x \, dy = 0 \quad \text{answer}$$

Problem 02

$$y \sin x - xy^2 = c$$

Solution 02

$$y \sin x - xy^2 = c$$

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

$$y \cos x \, dx + \sin x \, dy - 2xy \, dy - y^2 \, dx = 0$$

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

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

answer

Problem 03

$$x^2y = 1 + cx$$

Solution 03

$$x^2y = 1 + cx \quad \rightarrow \text{equation (1)}$$

$$x^2 \, dy + 2xy \, dx = c \, dx$$

Divide by dx

$$c = x^2 \, y' + 2xy$$

Substitute c to equation (1)

$$x^2y = 1 + (x^2 \, y' + 2xy)x$$

$$x^2y = 1 + x^3 \, y' + 2x^2y$$

$$1 + x^3 \, y' + x^2y = 0$$

Multiply by dx

$$dx + x^3 \, dy + x^2y \, dx = 0$$

$$(1 + x^2y) \, dx + x^3 \, dy = 0 \quad \text{answer}$$

Another Solution

$$x^2y = 1 + cx$$

$$xy = x^{-1} + c$$

$$x \, dy + y \, dx = -x^{-2} \, dx$$

$$x \, dy + y \, dx = -\frac{dx}{x^2}$$

$$x^3 \, dy + x^2y \, dx = -dx$$

$$x^3 \, dy + dx + x^2y \, dx = 0$$

$$(dx + x^2y \, dx) + x^3 \, dy = 0$$

$$(1 + x^2y) \, dx + x^3 \, dy = 0 \quad \text{okay}$$

Problem 04

$$cy^2 = x^2 + y$$

# Elementary Differential Equations

**AW Rasmussen**



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