

Solution 04

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

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

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

Substitute c to equation (1)

$$\left(\frac{2x \, dx + dy}{2y \, dy} \right) y^2 = x^2 + y$$

$$\left(\frac{2x \, dx + dy}{2 \, dy} \right) y = x^2 + y$$

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

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

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

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

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

Another Solution

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

Divide by y^2

$$c = \frac{x^2}{y^2} + \frac{1}{y}$$

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

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

$$0 = \frac{2(xy \, dx - x^2 \, dy)y}{y^4} - \frac{dy}{y^2}$$

$$0 = \frac{2(xy \, dx - x^2 \, dy)}{y^3} - \frac{dy}{y^2}$$

Multiply by y^3

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

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

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

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

Separation of Variables | Equations of Order One

Problem 01

$$\frac{dr}{dt} = -4rt, \quad \text{when } t = 0, \quad r = r_0$$

Solution 01

[HideClick here to show or hide the solution](#)

$$\frac{dr}{dt} = -4rt$$

$$\frac{dr}{r} = -4t \, dt$$

$$\int \frac{dr}{r} = -4 \int t \, dt$$

$$\ln r = -2t^2 + \ln c$$

$$\ln r = \ln e^{-2t^2} + \ln c$$

$$\ln r = \ln ce^{-2t^2}$$

$$r = ce^{-2t^2}$$

$$\text{when } t = 0, \quad r = r_0$$

$$r_0 = ce^{-2(0^2)}$$

Elementary Differential Equations With Linear Algebra

David L. Powers



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