

A system of differential equations is given as

$$\frac{dx}{dt} = 2x - 3y - 2 \quad (1)$$

$$\frac{dy}{dt} = x + y - 1 \quad (2)$$

Given that $x = 0$ and $y = 1$ when $t = 0$, find the particular solution to the system of differential equations.

$$\frac{dy}{dt} = x + y - 1$$

$$x = \frac{dy}{dt} - y + 1 \quad (3)$$

$$\frac{dx}{dt} = \frac{d^2y}{dt^2} - \frac{dy}{dt} \quad (4)$$

Sub (3) & (4) into (1)

$$\frac{d^2y}{dt^2} - \frac{dy}{dt} = 2\left(\frac{dy}{dt} - y + 1\right) - 3y - 2$$

$$\frac{d^2y}{dt^2} - 3\frac{dy}{dt} + 5y = 0$$

Auxiliary equation,
 $m^2 - 3m + 5 = 0$

$$m = \frac{3}{2} \pm \frac{i\sqrt{11}}{2}$$

General Solution

$$y = e^{\frac{3t}{2}} \left(A \cos \frac{\sqrt{11}}{2} t + B \sin \frac{\sqrt{11}}{2} t \right)$$

Modelling With Differential Equations

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