A system of differential equations is given as

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

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

Given that x = 0 and y = 1 when t = 0, find the particular solut

the system of differential equations.
$$\frac{dy}{dx} = x + y - 1$$

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

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

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

$$\overline{dt} = x + y - 1$$

$$\overline{dt^2} = 3\overline{dt} + 3y = 0$$

$$x = \frac{dy}{dt} - y + 1 \quad (3)$$
Auxiliary equation.
$$m^2 - 3m + 5 = 0$$

$$x = \frac{1}{dt} - y + 1$$
 (3)
$$m^2 - 3m + 5 = 0$$

$$\frac{dx}{dt} = \frac{d^2y}{dt^2} - \frac{dy}{dt}$$
 (4)
$$m = \frac{3}{2} + \frac{i\sqrt{11}}{2}$$

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

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

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

$$\frac{d^2y}{dt^2} - \frac{dy}{dt} = 2\left(\frac{dy}{dt} - y + 1\right) - 3y - 2 \qquad y = e^{\frac{3t}{2}}(A\cos\frac{\sqrt{11}}{2}t + B\sin\frac{y}{2})$$

Modelling With Differential And Difference Equations

Ronald E Mickens

Modelling With Differential And Difference Equations:

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