Science-1

Het Selarka UG1-2,ECE

$$\frac{10}{3} \frac{dx}{dt} = dx$$

$$\frac{20}{3} \frac{dR}{dt} = \frac{7}{3}$$

$$\frac{\partial f}{\partial t}$$

$$T(x,y) = \begin{cases} \text{Partial den of } f(x,y) \\ \text{wort } \infty \end{cases}$$

$$\text{Rot der of } g \text{ wit } \infty$$

 $f(x,y) = 4x - \beta yx$ $g = \gamma xy - \delta y$

Sy eigen vector thm,

Any vector can be written as sum of eigent vectors.

$$\overrightarrow{R}(0) = C_1 \cot \overrightarrow{v}_1 + C_2(0) \overrightarrow{v}_2$$

$$\overrightarrow{R}(1) = C_1(1) \overrightarrow{v}_1 + C_2(1) \overrightarrow{v}_2$$
We know $\overrightarrow{J}_R = \overrightarrow{J}_0 \cdot \overrightarrow{v}_1$

$$\overrightarrow{J}_0 \cdot \overrightarrow{v}_2 = \lambda_1 \cdot \overrightarrow{v}_1$$

$$\overrightarrow{J}_0 \cdot \overrightarrow{v}_2 = \lambda_2 \cdot \overrightarrow{v}_2$$

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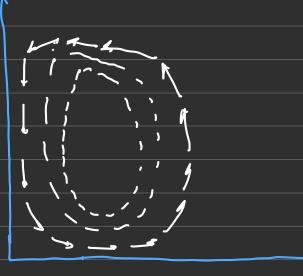
$$C_{1}(t) = C_{1}(0)Q^{\lambda_{1}t}$$

$$C_{2}(t) = C_{1}(0)Q^{\lambda_{2}t}$$

$$C_{2}(t) = C_{2}(0)Q^{\lambda_{2}t}$$

$$C_{3}(t) = C_{4}(0)Q^{\lambda_{2}t}$$

: Velocity Field for x(F) and y(t) simusoid functions:



$$Ex: \frac{d^2x}{dt^2} = \int_{0}^{\infty} (x,t)$$

Soln: Supprose
$$10(t) = \frac{dx}{dt}$$

$$\frac{1}{2} \frac{dv}{dt} = \int Cx_{j}(x)$$