Quiz # H) New matrice] Matrix = 25

$$\frac{dx}{dt} = 3x - y - 2$$

$$\frac{dx}{dt} = x + y - z + t$$

$$\frac{dx}{dt} = x - y + z + z e t$$

$$\frac{(x')}{z'} = \begin{bmatrix} 3 - 1 & -1 & 1 \\ 1 & -1 & 1 \end{bmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} + \begin{pmatrix} 0 \\ t \\ z e^{t} \end{pmatrix}$$

$$\frac{x'}{z} = x - y + z + z e t$$

$$\frac{(x')}{z'} = \begin{bmatrix} 3 - 1 & -1 & 1 \\ 1 & -1 & 1 \end{bmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} + \begin{pmatrix} 0 \\ t \\ z e^{t} \end{pmatrix}$$

$$\frac{x'}{z} = x + t$$

$$A = \begin{bmatrix} 3 - 1 & -1 & 1 \\ 1 & -1 & 1 \end{bmatrix}$$

$$A - A = \begin{bmatrix} 3 - 1 & -1 & 1 \\ 1 & -1 & 1 \end{bmatrix}$$

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 $\begin{pmatrix} 2 & -1 & -1 \\ 1 & 0 & -1 \end{pmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$ V1=[1,1] $\begin{bmatrix} 1 & -1 & -1 \\ 1 & -1 & -1 \end{bmatrix} \begin{bmatrix} x \\ 2 \\ 2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$ 2=0 1/2 = [] y=0 Y=0 Y=0 () X(t)= (, etv, + (zetvz + ste2ty g(+)= (,et(!)+(ze2t(!)+(zte2t(!))# of general souther of homoseness from

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etc-tetetetet)+ezt-zet+o-tezt

etc-tetetetet)+ezt-zet+o-tezt et (-tettet) to ret tert et -t +e2+2+e+2e3++2+0+-- t+e2+ 2te+ +2e3t -t+e3t2te+++te4t

 $\begin{array}{l}
Q_{12} + 14 & \text{Most mustaran} & \text{Most mustaran} \\
P_{p} = t \left[\frac{1}{2} \right] + e^{2t} \left[\frac{1}{2} \right] + te^{t} \left[\frac{2}{2} \right] + e^{3t} \left[\frac{2}{3} \right] \\
+ te^{4t} \left[\frac{1}{2} \right] \\
+ te^{4t} \left[\frac{1}{2} \right] + te^{2t} \left[\frac{1}{2} \right] + te^{2t} \left[\frac{2}{3} \right] + e^{3t} \left[\frac{2}{3} \right] \\
+ te^{4t} \left[\frac{1}{2} \right] \\
+ te^{4t} \left[\frac{1}{2} \right]
\end{array}$

Quiz
$$\frac{A}{A}$$
 | Neer Mistural Main 225)

$$\frac{\partial A}{\partial t} = + \text{tark } A \quad \frac{\partial B}{\partial t} = + \text{tarnte } 6 \quad \frac{\partial C}{\partial t} = + \text{tarnte } 6$$

$$\frac{\partial A}{\partial t} = -3(150) + 10 - \frac{8}{10} - 40 + \frac{A}{10} - 20 + \frac{A}{10}$$

$$\frac{\partial C}{\partial t} = -30 + 10 + 10 + 10 + 10 + 10 + 10 + 100$$

$$\frac{\partial C}{\partial t} = -30 + 10 + 10 + 10 + 10 + 100 + 10 + 100$$

$$\frac{\partial C}{\partial t} = -150 + \frac{B}{10} - \frac{A}{10} + \frac{A}{10} + \frac{A}{10} + \frac{A}{10} = -20$$

$$\frac{\partial C}{\partial t} = -150 + \frac{B}{10} - \frac{A}{10} + \frac{A}{10} = -20$$

$$\frac{\partial C}{\partial t} = -\frac{A}{10} + \frac{A}{10} - \frac{A}{10} + \frac{A}{10} = -20$$

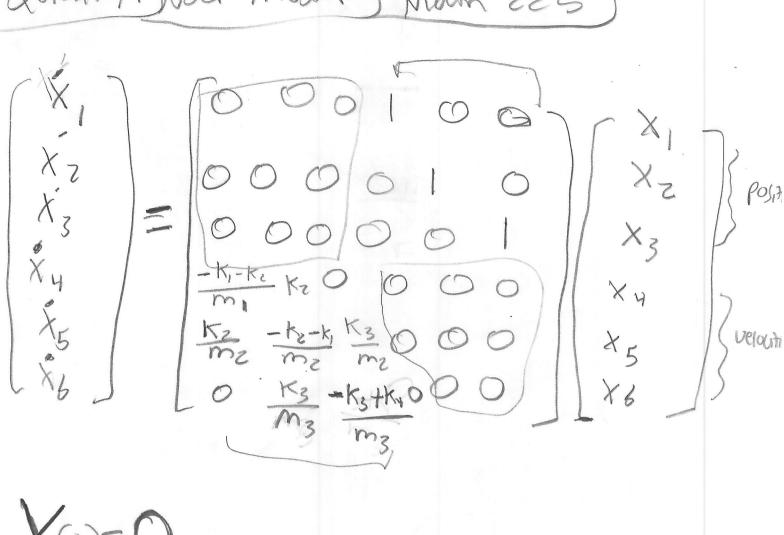
$$\frac{\partial C}{\partial t} = -\frac{A}{10} - \frac{A}{10} + \frac{A}{10} = -\frac{A}{10} + \frac{A}{10} = -20$$

$$\frac{\partial C}{\partial t} = -\frac{A}{10} - \frac{A}{10} + \frac{A}{10} = -\frac{A}{10} + \frac{A}{10} = -20$$

$$\frac{\partial C}{\partial t} = -\frac{A}{10} - \frac{A}{10} = -\frac{A}{10} + \frac{A}{10} = -20$$

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$$\frac{\partial C}{\partial t} = -\frac{A}{10} - \frac{A}{10} = -\frac{A}{10} = -\frac{A}{10$$



X(0)=0

alumn veltor of X