SISTERA (TI-TD

$$x(k+1) = Ax(k)$$

$$\begin{bmatrix} 9/40 & -3/40 & 1 \\ 3/40 & -2/40 & 1
\end{bmatrix}$$

$$A = \begin{bmatrix} -3/5 & 4/5 & -2 \\ -3/5 & 16 & 2
\end{bmatrix}$$

$$\begin{bmatrix} -3/5 & 3/6 & -3/2 \\ 16 & 2
\end{bmatrix}$$

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\end{bmatrix}$$

$$\begin{bmatrix} -3/6 & 1/6 & 1/6 \\ 1/6 & 1/6 & 1/6 \end{bmatrix}$$

$$\begin{bmatrix} -1/2 & 1/2 & 1/2 \\ 1/2 & 1/2 & 1/2 \end{bmatrix}$$

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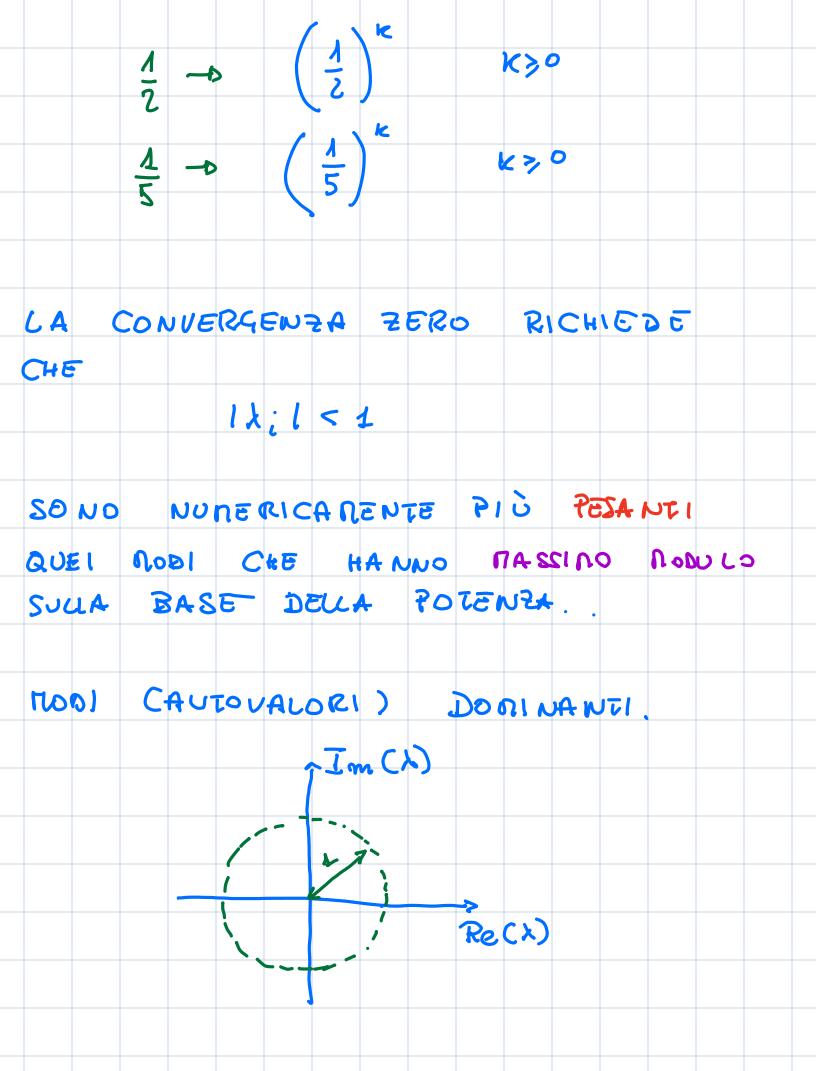
$$\begin{bmatrix} -1/2 & 1/2 & 1/2 \\ 1/2 & 1/2 & 1/2 \end{bmatrix}$$

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$$A \cdot \mathcal{N}_{4} = \lambda_{4} \mathcal{N}_{4}$$

$$\mathfrak{X}_{e}(\kappa) = \begin{bmatrix} -\frac{1}{2} \\ 1 \end{bmatrix} \begin{pmatrix} -\frac{1}{2} \\ -\frac{1}{2} \end{pmatrix} \cdot 6 + \begin{bmatrix} -1 \\ 2 \\ 1 \end{bmatrix} \begin{pmatrix} \frac{1}{2} \\ -\frac{1}{2} \end{pmatrix} \cdot (-2) + \begin{pmatrix} 1 \\ 1 \end{pmatrix} \begin{pmatrix} \frac{1}{2} \\ -\frac{1}{2} \end{pmatrix} \cdot (-4)$$

$$\mathfrak{X}_{e}(\kappa) = A \cdot \mathfrak{X}_{o}$$

$$\mathfrak{X}_{o} = \begin{bmatrix} 2 \\ -4 \\ -4 \end{bmatrix}$$

$$x_{e}(k) = \sum_{i=1}^{k} \delta_{i} \lambda_{i} \lambda_{i} \lambda_{i} = \delta_{i} \lambda_{i} \gamma$$

$$\int_{i=1}^{k} (t) = A x(t)$$

$$x(t) = A x(t)$$

$$x_{e}(t) = x_{e}$$

$$x_{e}(t) = e^{At} x_{o}$$

$$x_{e}(0) = e^{At} x_{o} = I_{n} x_{o} = x_{o}$$

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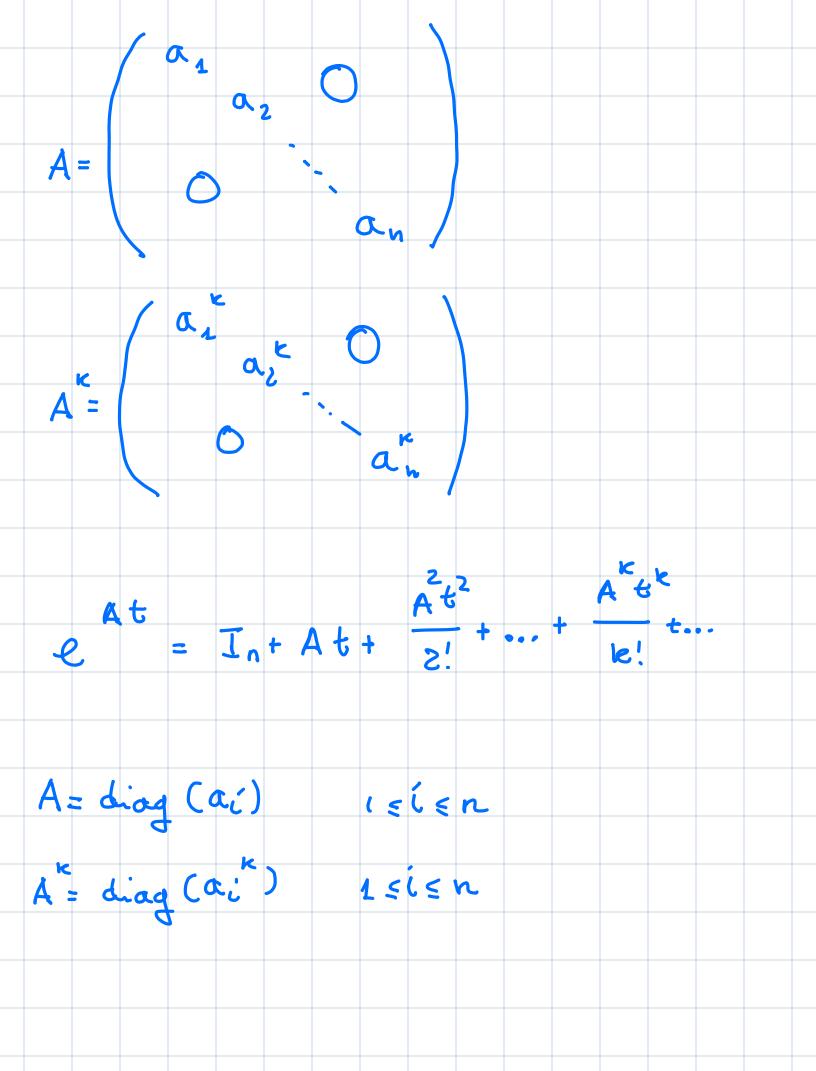
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$$x_{e}(0) = e^{At} x_{o} = x_{o}$$

$$\frac{d}{dt} \left(e^{At} \right) = \frac{d}{dt} \left(I_{n} + At + \frac{A \cdot b}{2!} + ... + \frac{A^{k} \cdot k}{k!} + ...$$

$$\frac{d}{dt} \propto_{e}(t) = \frac{d}{dt} \left(e^{At} \propto_{o} \right) = \frac{d}{dt} \left(e^{At} \right) \propto_{o} = \frac{d}{dt} \left(e^{At} \right) \times_{o} = \frac{d}{dt} \left(e^$$



e At = In + diag (ait) + diag
$$\left(\frac{a_i^2 t^2}{z!}\right)$$
 +...+

+ diag $\left(\frac{a_i^2 t^2}{k!}\right)$ = diag $\left(\frac{a_i^2 t^2}{z!}\right)$ = dia

