$$E11 \text{ Dato}$$

$$Sin_{1} = -2n_{1} + 6n_{2} + 0$$

$$Sin_{2} = -2n_{1} + 5n_{2}$$

$$AS/S/1?$$

$$2) n(0) = \begin{bmatrix} 0 \\ 0 \end{bmatrix} \Rightarrow m(t) t > 0$$

$$u(t) = Sco(t)$$

1)
$$A = \begin{bmatrix} -2 & 6 \\ -2 & 5 \end{bmatrix}$$
 $tr(A) > 0 =$ sistems 1
2) Colcob $n_{L}(4)$ tourite e^{At} e^{At}

· Autovetton A Z = 5, Z $5_1 = 1$: $\begin{bmatrix} -2 & 6 \end{bmatrix} \begin{bmatrix} 21 \\ 22 \end{bmatrix} = \begin{bmatrix} 21 \\ 22 \end{bmatrix}$ $\{-2Z_1+6Z_2=Z_1 \rightarrow 6Z_2=3Z_1 \Rightarrow \{Z_1=2Z_2-3Z_1\}$ 1-221+522 = 22 Sceles [2] sest. welle 22 ep -422+522=22

$$S_{z}=2: \begin{bmatrix} -2 & 6 \\ -2 & 5 \end{bmatrix} \begin{bmatrix} z_{1} \\ z_{2} \end{bmatrix} = 2 \begin{bmatrix} z_{1} \\ z_{2} \end{bmatrix}$$

$$\begin{cases} -2z_{1} + 6z_{2} = 2z_{1} & \Rightarrow \\ -2z_{1} + 5z_{2} = 2z_{2} \end{cases} \qquad 6z_{z} = 4z_{1} \Rightarrow \begin{cases} z_{1} = \frac{3}{2}z_{2} \\ +2z_{2} \end{cases}$$

$$Solo \begin{bmatrix} 3 \\ 2 \end{bmatrix}$$

That ice objective objective
$$T = \begin{bmatrix} 2 & 3 \\ 1 & 2 \end{bmatrix} \Rightarrow T^{-1}AT = \begin{bmatrix} 1 & 0 \\ 0 & 2 \end{bmatrix}$$

where $T = \begin{bmatrix} 2 & 3 \\ 1 & 2 \end{bmatrix} \Rightarrow T^{-1}AT = \begin{bmatrix} 1 & 0 \\ 0 & 2 \end{bmatrix}$

where $T = \begin{bmatrix} 2 & 3 \\ 4 & 3 \end{bmatrix} = \begin{bmatrix} 2 & -3 \\ -1 & 2 \end{bmatrix} = \begin{bmatrix} 2 & -3 \\ -1 & 2 \end{bmatrix}$

$$e^{At} = e^{T\begin{bmatrix} 1 & 2 \end{bmatrix}T^{-1}t} = Te^{\begin{bmatrix} 1 & 2 \end{bmatrix}t}T^{-1}$$

$$= \begin{bmatrix} 2 & 3 \\ 1 & 2 \end{bmatrix} \begin{bmatrix} e^{t} & 0 \\ 0 & e^{2t} \end{bmatrix} \begin{bmatrix} 2 & -3 \\ -1 & 2 \end{bmatrix}$$

$$= \begin{bmatrix} 2e^{t} & 3e^{2t} \end{bmatrix} \begin{bmatrix} 2 & -3 \\ -1 & 2 \end{bmatrix}$$

$$= \begin{bmatrix} 4e^{t} - 3e^{2t} & -6e^{t} + 6e^{2t} \\ 2e^{t} - 2e^{2t} & -3e^{t} + 4e^{2t} \end{bmatrix}$$

$$\mathcal{P}_{L}(t) = \mathcal{Q} \mathcal{P}_{L}(0) = \begin{bmatrix} 0 \\ 0 \end{bmatrix} \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$= \begin{bmatrix} 4e^{t} - 3e^{2t} \\ 2e^{t} - 2e^{2t} \end{bmatrix} + \mathcal{O}_{L1}(t)$$

· Colcolo Mf (f) tramite JDL $\pi_{\text{A}} = A m_{\text{A}} + b v \Rightarrow S X_{\text{F}} = H X_{\text{F}} + b$

Quivoli

$$x_{\mp 1}(5) = \frac{-5b}{5} + \frac{4}{5-1} - \frac{3/2}{5-2}$$

 $x_{\mp 1}(t) = \left(-\frac{5}{2} + 4e^{t} - \frac{3}{2}e^{2t}\right) sos(t)$
 $x_{\mp 2}(5) = \cdots$
 $x_{\mp 2}(t) = \cdots$

Colob totto con la TOL

$$\Rightarrow X(5) = (SI-A)^{-1} 27(0) + (SI-A)^{-1} + O(5)$$

 $n = An A = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$ A3/5/12 Colcolo M(t) per n(o) generico A non è di po voli Ezzhale => TDL

$$X_{L}(5) = (52-4)^{-1} \Re(0) = \begin{bmatrix} 5 & -1 \\ 0 & 5 \end{bmatrix} \begin{bmatrix} n_{01} \\ n_{02} \end{bmatrix}$$

$$= \frac{1}{5^{2}} \begin{bmatrix} 5 & 1 \\ 0 & 5 \end{bmatrix} \begin{bmatrix} n_{01} \\ n_{02} \end{bmatrix} = \begin{bmatrix} 1/5 & 1/5^{2} \\ 0 & 1/5 \end{bmatrix} \begin{bmatrix} n_{01} \\ n_{02} \end{bmatrix}$$

$$= \begin{bmatrix} \frac{1}{5} m_{e1} + \frac{1}{5^{2}} m_{02} \\ \frac{1}{5} m_{02} \end{bmatrix} = \begin{bmatrix} 1/5 & 1/5^{2} \\ 0 & 1/5 \end{bmatrix} \begin{bmatrix} n_{01} \\ n_{02} \end{bmatrix}$$

$$= \begin{bmatrix} \frac{1}{5} m_{e1} + \frac{1}{5^{2}} m_{02} \\ \frac{1}{5} m_{02} \end{bmatrix} = \begin{bmatrix} 1/5 & 1/5^{2} \\ \frac{1}{5} & \frac{1}{5^{2}} & \frac{1}{5^{2}} \end{bmatrix} = 5 \cos(t)$$

$$= \begin{bmatrix} \frac{1}{5} m_{01} + \frac{1}{5^{2}} m_{02} \\ \frac{1}{5} m_{02} \end{bmatrix} = \begin{bmatrix} \frac{1}{5} m_{01} \\ \frac{1}{5} & \frac{1}{5^{2}} \end{bmatrix} = 5 \cos(t)$$

$$= \begin{bmatrix} m_{01} + m_{02}t \\ \frac{1}{5} & \frac{1}{5^{2}} \end{bmatrix} = 5 \cos(t)$$

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$$= \begin{bmatrix} m_{01} +$$

E3]
$$n = f(x)$$

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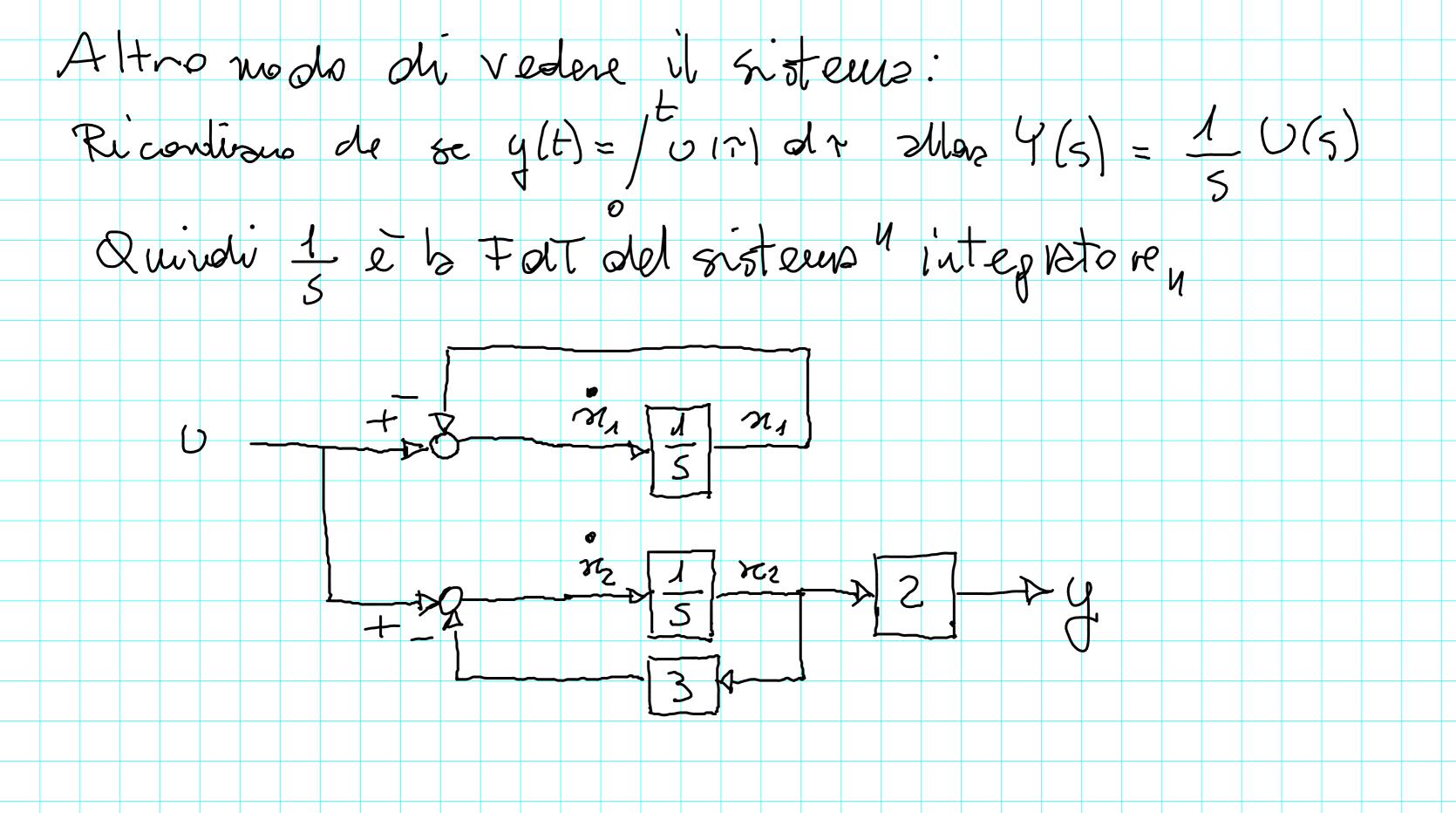
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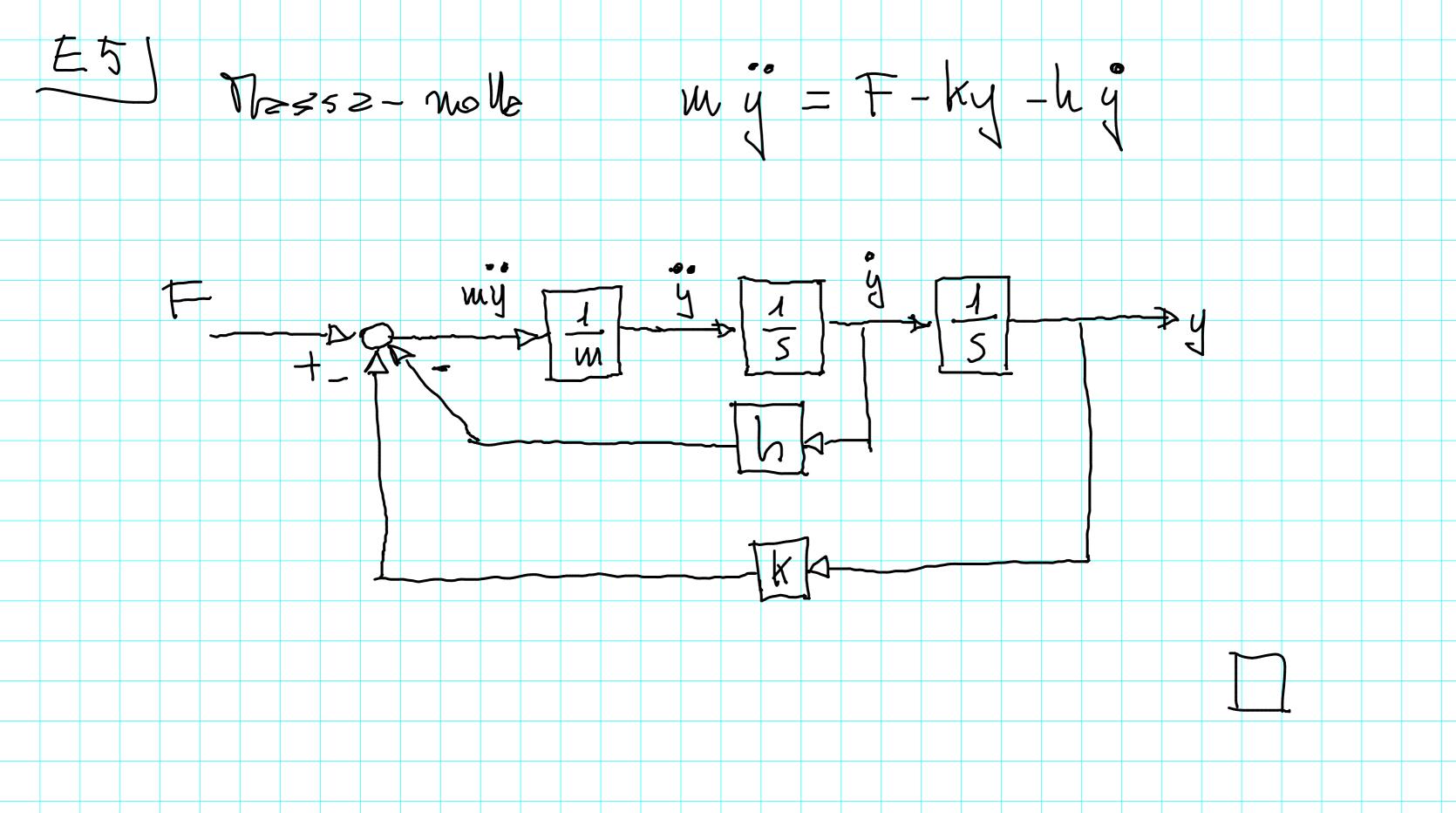
$$A = \begin{bmatrix} 1 & 0 \\$$

 $i \frac{\partial}{\partial x} = - \frac{\partial}{\partial x} + 0$ FdT 6(5)? Schens 2 loboceu? (y = 2 m $G(s) = C(sT-A)^{-1}b+d=[02][s+107^{-1}]+0$ $\simeq \frac{1}{(s+1)(s+3)} \begin{bmatrix} 0 & 2 \end{bmatrix} \begin{bmatrix} s+3 & 0 \\ 0 & s+1 \end{bmatrix} \begin{bmatrix} 1 \\ 1 \end{bmatrix} = \frac{1}{11} \begin{bmatrix} 0 & 2(s+1) \end{bmatrix} \begin{bmatrix} 1 \\ 1 \end{bmatrix}$ = (5+t) (5+3) = 5+3 concellazione polo/zero

Dod Sist. scolere (TIF, can sleven Folt) porte vescosta "



m severble $\begin{cases}
\hat{n} = An + bv \\
14 = Cn + dv
\end{cases}$

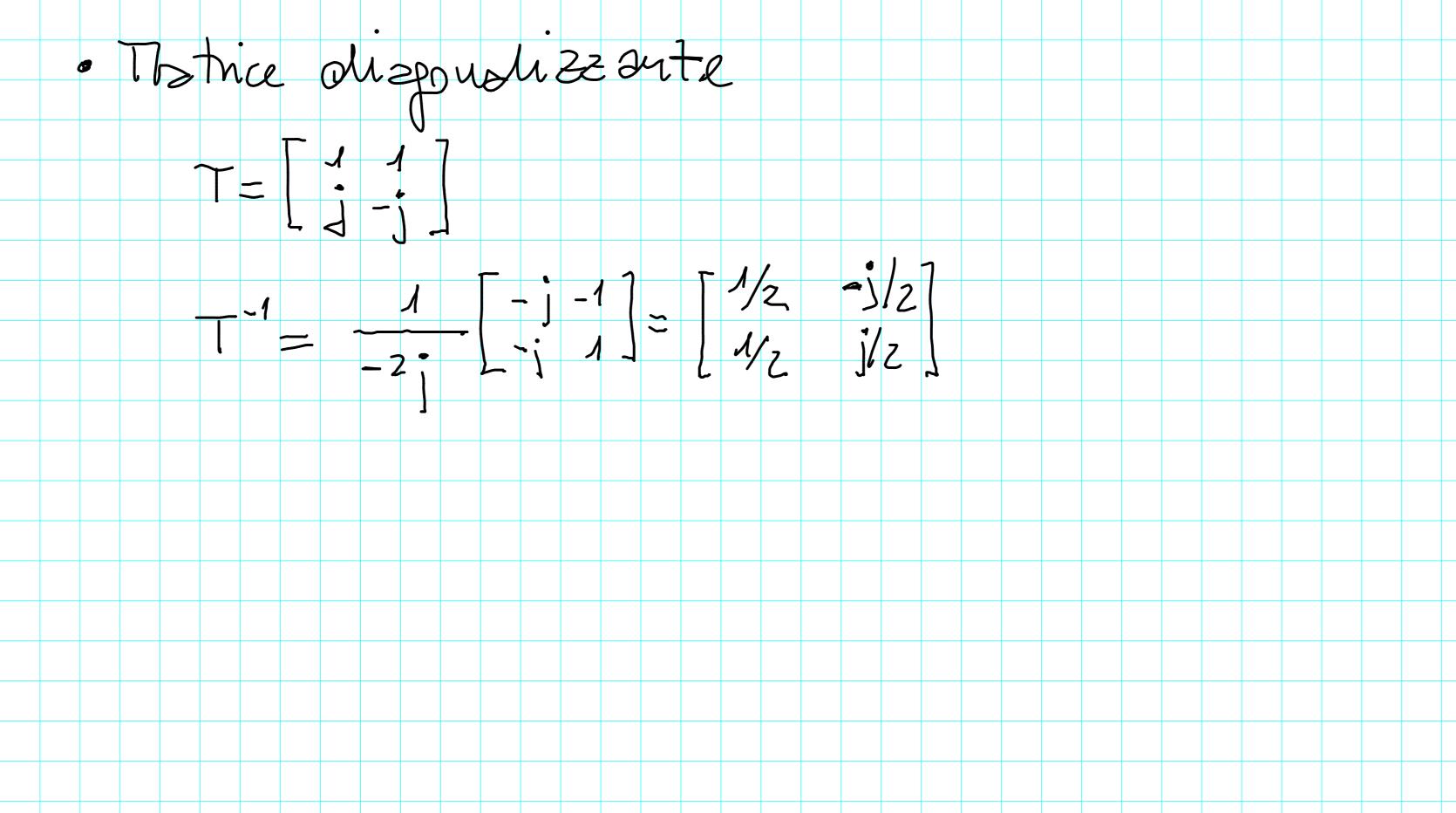


$$\begin{array}{c}
E G \\
\hat{n} = A \pi \\
A = \begin{bmatrix} 1 & -2 \\ 2 & 1 \end{bmatrix} & \pi(G) = \begin{bmatrix} 2 \\ 0 \end{bmatrix} \\
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a Autovaloni di A:
$$1 \mp j2$$

b. Autovaloni di A: $1 \mp j2$

c. Aut



or
$$\mathcal{H}_{L}$$
 di \mathcal{H}_{L} $\mathcal{H$