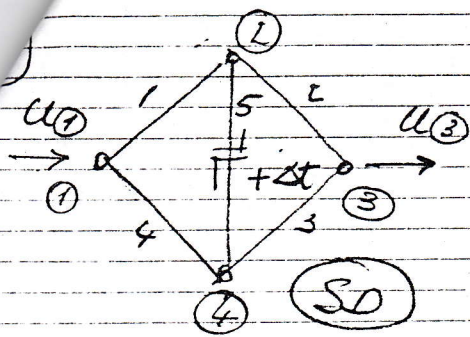


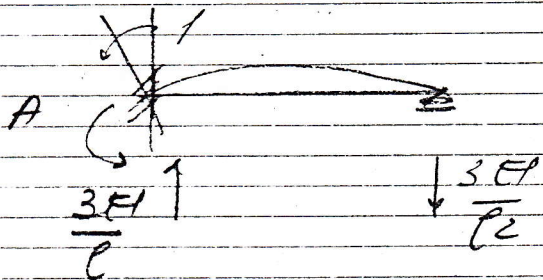
	1	2	3	4	5
	$+\frac{\sqrt{2}}{2}$	$+\frac{\sqrt{2}}{2}$	$+\frac{\sqrt{2}}{2}$	$+\frac{\sqrt{2}}{2}$	-1

$$\Delta r_c = 1 \cdot u_3 - 1 \cdot u_1 = 1(u_3 - u_1) = 1 \Delta u =$$

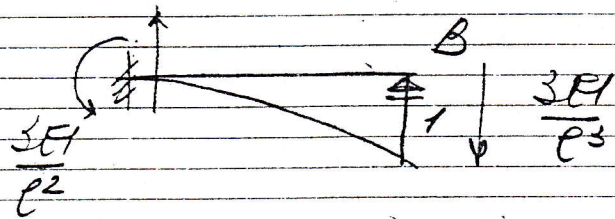
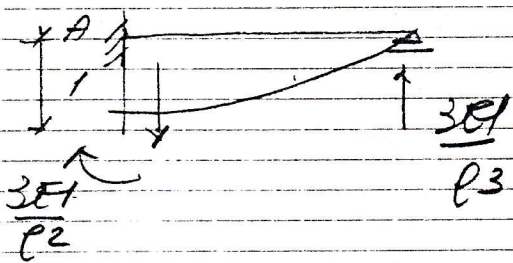
$$= \Delta r_i = (-1) \alpha \ell \sqrt{2} \Delta t$$

$$\Delta u = -\alpha \ell \sqrt{2} \Delta t \Rightarrow u_1 > u_3 \Rightarrow \text{asymmetricamente}$$

4) A $\xrightarrow{\ell}$ B



Assuma rigidezza
alla rotazione in B



$$\begin{bmatrix} \frac{3EI}{\ell} & -\frac{3EI}{\ell^2} & 0 & \frac{3EI}{\ell^2} \\ -\frac{3EI}{\ell^2} & \frac{3EI}{\ell^3} & 0 & -\frac{3EI}{\ell^3} \\ 0 & 0 & 0 & 0 \\ \frac{3EI}{\ell^2} & -\frac{3EI}{\ell^3} & 0 & \frac{3EI}{\ell^3} \end{bmatrix} \begin{bmatrix} \varphi_A \\ r_A \\ \varphi_B \\ r_B \end{bmatrix} = \begin{bmatrix} M_A \\ T_A \\ M_B \\ T_B \end{bmatrix}$$