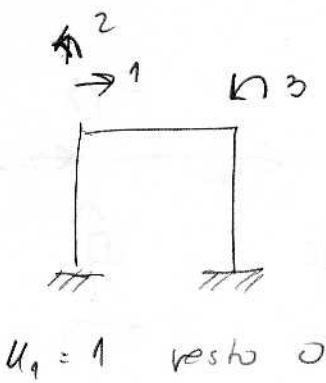


Análisis

$$EI = 1000$$

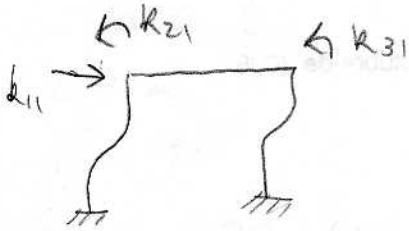
$$l = 2$$



$$k_{11} = \frac{24EI}{l^3}$$

$$k_{21} = \frac{6EI}{l^2}$$

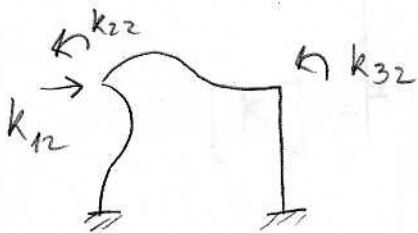
$$k_{31} = \frac{6EI}{l^2}$$



$$k_{12} = \frac{6EI}{l^2}$$

$$k_{32} = \frac{2EI}{l}$$

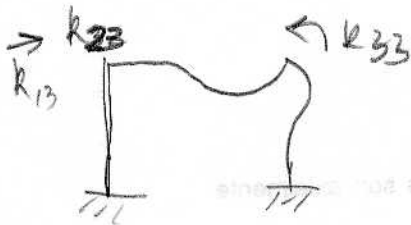
$$k_{22} = \frac{8EI}{l}$$



$$k_{13} = \frac{6EI}{l^2}$$

$$k_{33} = \frac{8EI}{l}$$

$$k_{23} = \frac{2EI}{l}$$



$$\Rightarrow [K] = \begin{bmatrix} \frac{24EI}{l^3} & \frac{6EI}{l^2} & \frac{6EI}{l^2} \\ \frac{6EI}{l^2} & \frac{8EI}{l} & \frac{2EI}{l} \\ \frac{6EI}{l^2} & \frac{2EI}{l} & \frac{8EI}{l} \end{bmatrix}$$

$$= \begin{bmatrix} 3000 & 1500 & 1500 \\ 1500 & 4000 & 1000 \\ 1500 & 1000 & 4000 \end{bmatrix}$$

