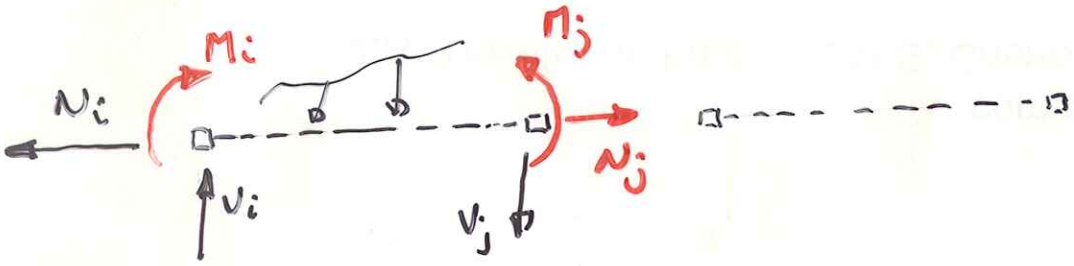
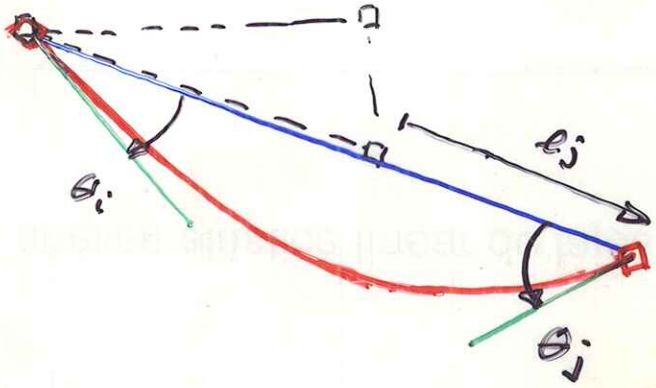
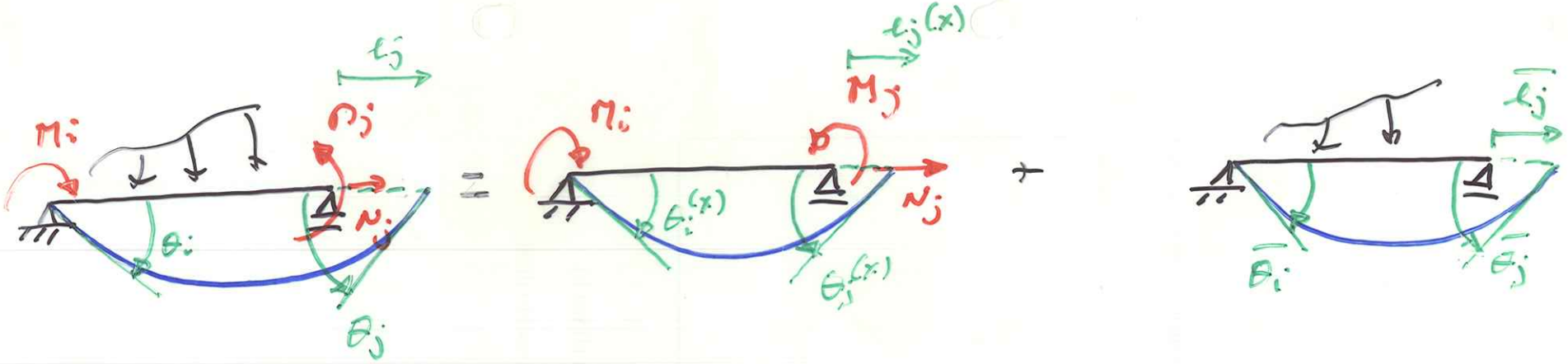


$$\underline{u} = \begin{bmatrix} \theta_i \\ \theta_j \\ e_j \end{bmatrix}$$





$$\begin{bmatrix} \theta_i \\ \theta_j \\ e_j \end{bmatrix} = \begin{bmatrix} \frac{L}{3EI} & \frac{L}{6EI} & 0 \\ \frac{L}{6EI} & \frac{L}{3EI} & 0 \\ 0 & 0 & \frac{L}{EA} \end{bmatrix} \begin{bmatrix} M_i \\ M_j \\ N_j \end{bmatrix} + \begin{bmatrix} \bar{\theta}_i \\ \bar{\theta}_j \\ \bar{e}_j \end{bmatrix}$$