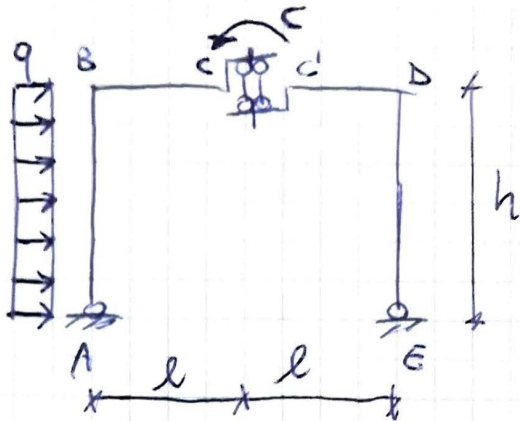


Esercizio → problema statico



① Classificare la stabilità

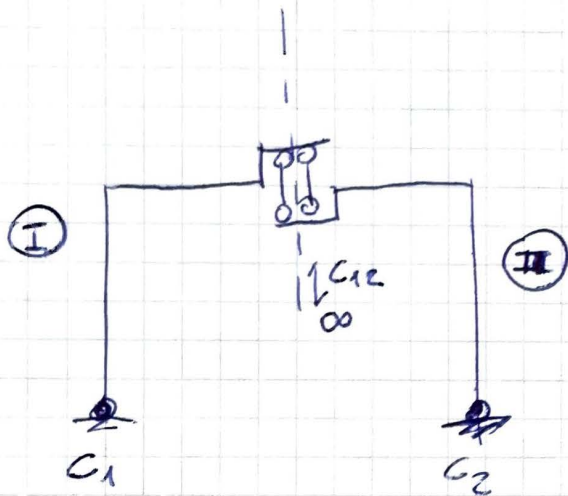
$$i - l = s - 3t$$

$$\begin{matrix} \downarrow & \downarrow \\ 6 & 3 \cdot 2 = 6 \end{matrix} \quad s = 3t$$

cond. necessari di una stabilità

$$i - l = 0$$

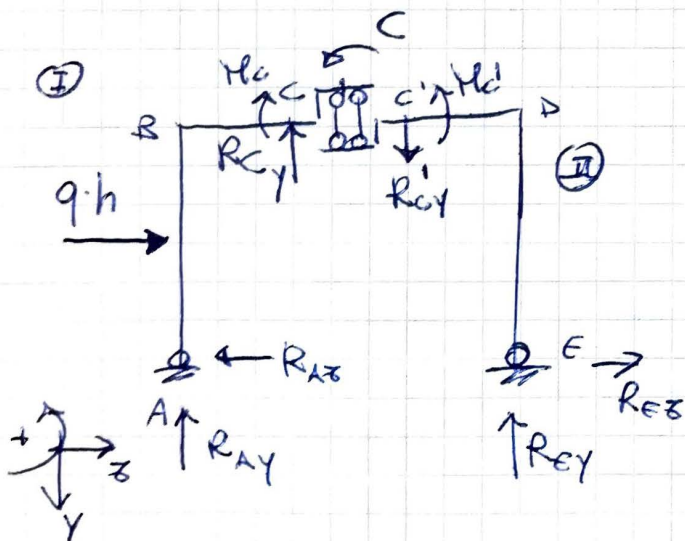
↓
si può ricavare dalle catene cinematiche



C_1 e C_2 non sono allineati con C_{12} che va a ∞ , quindi

$$l = 0$$

↓
 $i = 0 \Rightarrow$ struttura isostatica



I tronco

$$\downarrow) -R_{Ay} - R_{Cy} = 0$$

$$\rightarrow) -R_{Ax} + qh = 0$$

$$\curvearrowright) -qh^2/2 + R_{Cy}l + C - M_C = 0$$

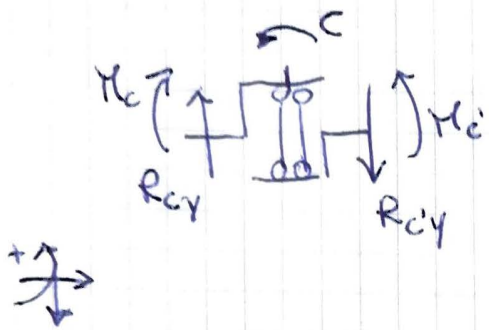
II tronco

$$\downarrow) R_{C'y} - R_{E'y} = 0$$

$$\rightarrow) R_{E'x} = 0$$

$$\curvearrowright) R_{C'y}l + M'_C = 0$$

equ. modo c



$$-R_{cy} + R_{cy} = 0 \Rightarrow R_{cy} = R_{cy}$$

$$-M_c + M_c' + C = 0 \Rightarrow M_c' = M_c - C$$

$$\begin{bmatrix} -1 & 0 & -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 & 0 \\ 0 & 0 & l & -1 & 0 & 0 \\ 0 & 0 & 1 & 0 & -1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & l & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} R_{Ay} \\ R_{Az} \\ R_{cy} \\ M_c \\ R_{cy} \\ R_{Bz} \end{bmatrix} + \begin{bmatrix} 0 \\ qh \\ -\frac{qh^2}{2} + C \\ 0 \\ 0 \\ -C \end{bmatrix}$$

$$\underline{\underline{\sum}} \underline{\underline{r}} + \underline{\underline{f}} = 0$$