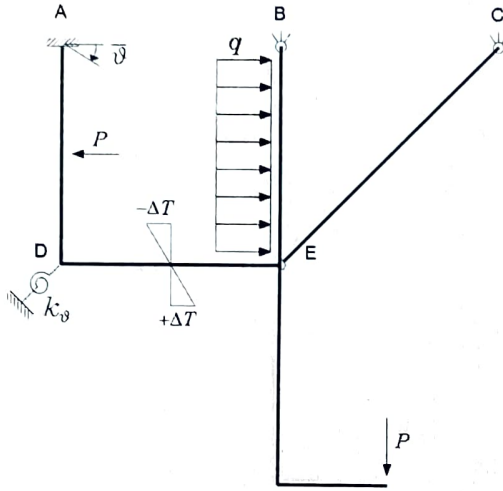


$$P = 2ql$$

$$K_{\theta} = \frac{7}{6} \frac{EJ}{l}$$

$$\frac{\Delta \Delta T}{H} = \frac{19}{16} \frac{ql^2}{EJ}$$

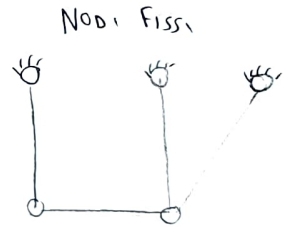
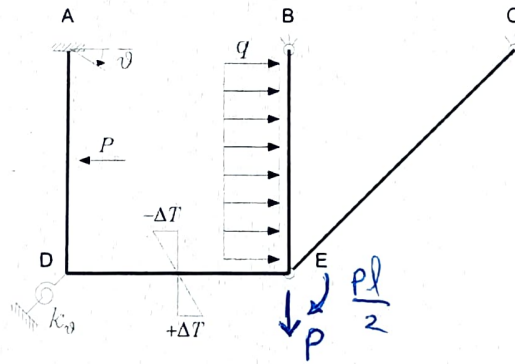
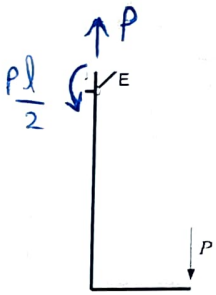
$$\vartheta = \frac{1}{6} \frac{ql^3}{EJ}$$



$$gdl = 6$$

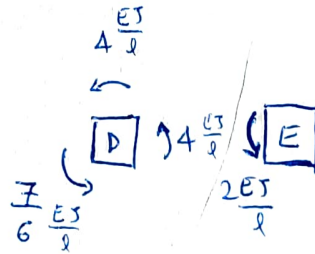
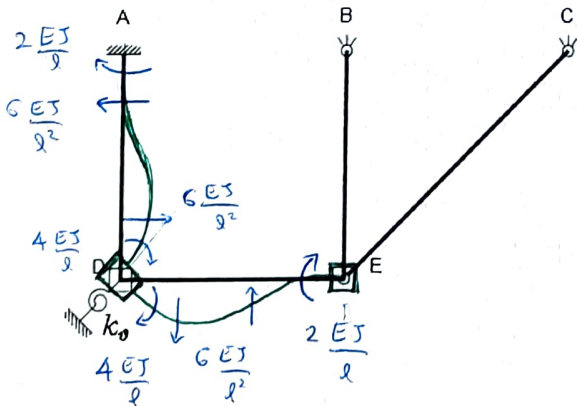
$$gdV = 9$$

APPENDICE ISOSTATICA



$$\begin{cases} m_{DD} \varphi_D + m_{DC} \varphi_C + m_{D0} = 0 \\ m_{ED} \varphi_D + m_{EE} \varphi_E + m_{E0} = 0 \end{cases}$$

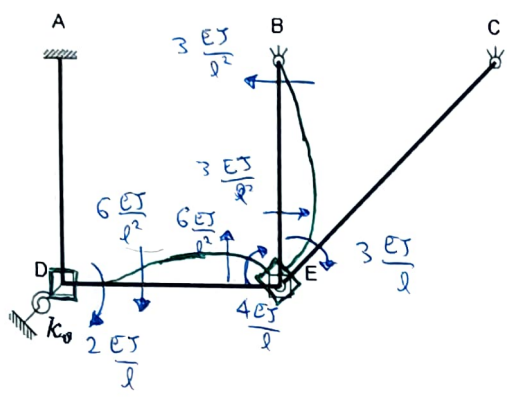
$\varphi_D = 1$



$$\begin{aligned} m_{DD} &= \frac{8EJ}{l} + \frac{7}{6} \frac{EJ}{l} \\ &= \frac{55}{6} \frac{EJ}{l} \end{aligned}$$

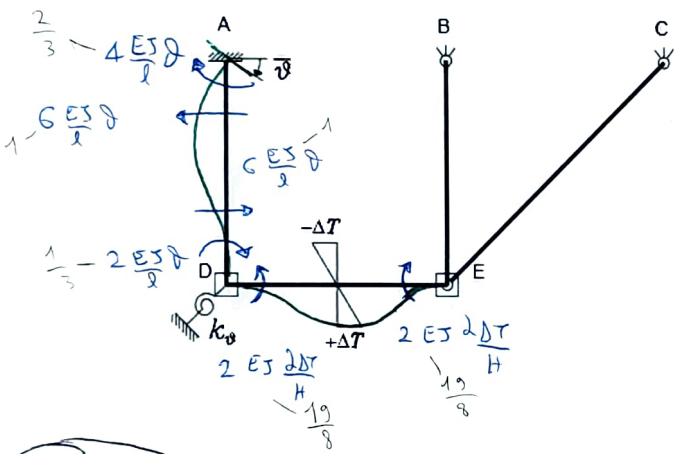
$$m_{ED} = 2 \frac{EJ}{l}$$

$\psi_E = 1$



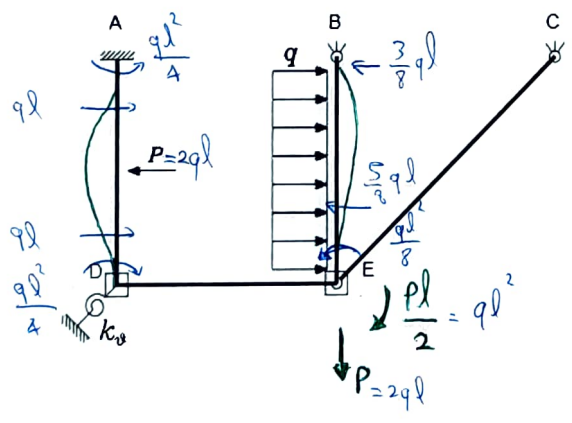
$\boxed{D} \curvearrowright 2 \frac{EJ}{l}$   $m_{DE} = 2 \frac{EJ}{l}$   
 $\boxed{E} \curvearrowleft 4 \frac{EJ}{l}$   $m_{ED} = 7 \frac{EJ}{l}$

$\Delta \neq 0, T \neq 0$



$\boxed{D} \curvearrowdown \frac{1}{3} q l^2$   $m_{D0_1} = -\frac{49}{24} q l^2$   
 $\boxed{E} \curvearrowdown \frac{19}{8} q l^2$   $m_{E0_1} = \frac{19}{8} q l^2$

$P \neq 0, q \neq 0$



$\boxed{D} \curvearrowright \frac{q l^2}{4}$   $m_{D0_2} = \frac{q l^2}{4}$   
 $\boxed{E} \curvearrowleft \frac{q l^2}{8}$   $m_{E0_2} = -\frac{9}{8} q l^2$

$$\begin{cases} \frac{55}{6} \frac{EJ}{l} \psi_D + 2 \frac{EJ}{l} \psi_E - \frac{49}{24} q l^2 + \frac{q l^2}{4} = 0 \\ 2 \frac{EJ}{l} \psi_D + 7 \frac{EJ}{l} \psi_E + \frac{19}{8} q l^2 - \frac{9}{8} q l^2 = 0 \end{cases}$$

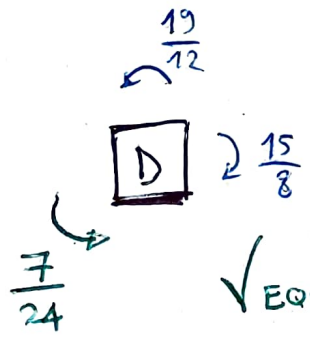
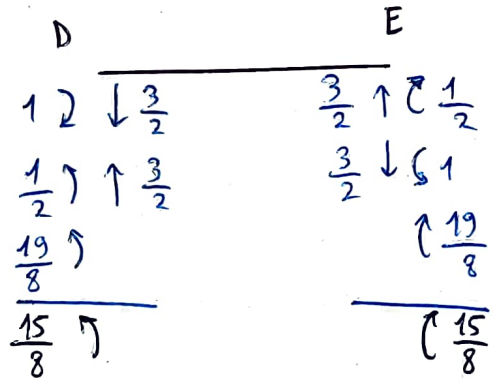
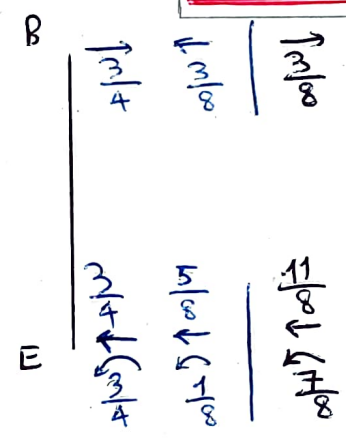
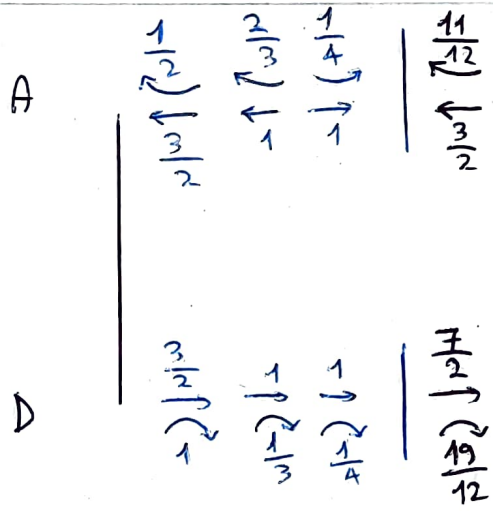
$$\begin{cases} \frac{55}{6} \frac{EJ}{l} \varphi_D + 2 \frac{EJ}{l} \varphi_E - \frac{43}{24} ql^2 = 0 \\ \frac{EJ}{l} \varphi_D = -\frac{7}{2} \frac{EJ}{l} \varphi_E - \frac{5}{8} ql^2 \end{cases}$$

$$\frac{55}{6} \left( -\frac{7}{2} \frac{EJ}{l} \varphi_E - \frac{5}{8} ql^2 \right) + 2 \frac{EJ}{l} \varphi_E - \frac{43}{24} ql^2 = 0$$

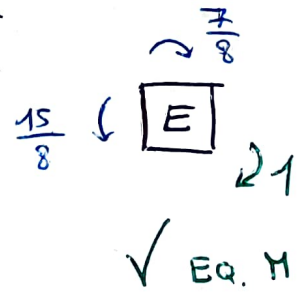
$$-\frac{385}{12} \frac{EJ}{l} \varphi_E - \frac{275}{48} ql^2 + 2 \frac{EJ}{l} \varphi_E - \frac{43}{24} ql^2 = 0$$

$$-\frac{361}{12} \frac{EJ}{l} \varphi_E - \frac{361}{48} ql^2 = 0 \quad \varphi_E = -\frac{1}{4} \frac{ql^3}{EJ}$$

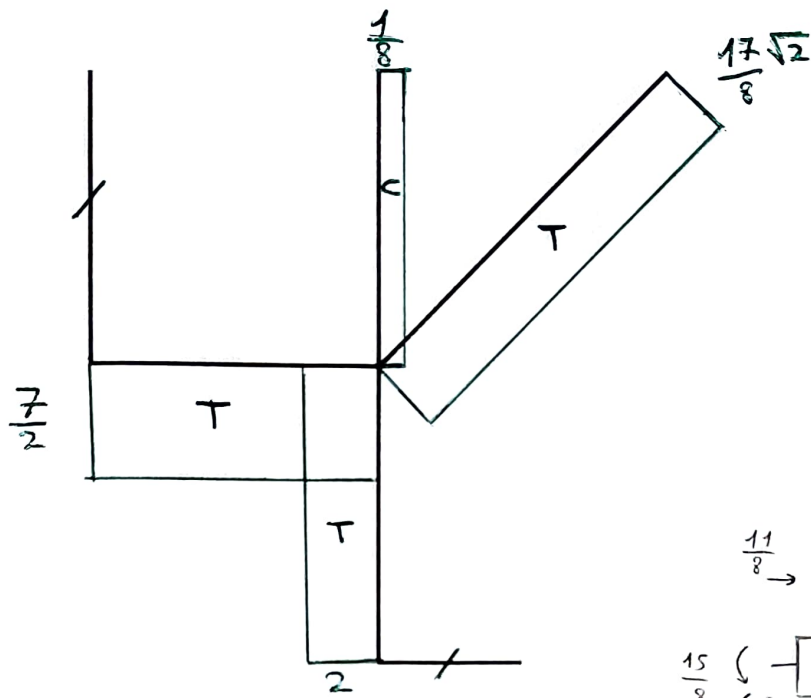
$$\rightarrow \varphi_D \cdot \frac{EJ}{l} = -\frac{7}{2} \frac{EJ}{l} \left( -\frac{1}{4} \frac{ql^3}{EJ} \right) - \frac{5}{8} ql^2 \quad \varphi_D = \frac{1}{4} \frac{ql^3}{EJ}$$



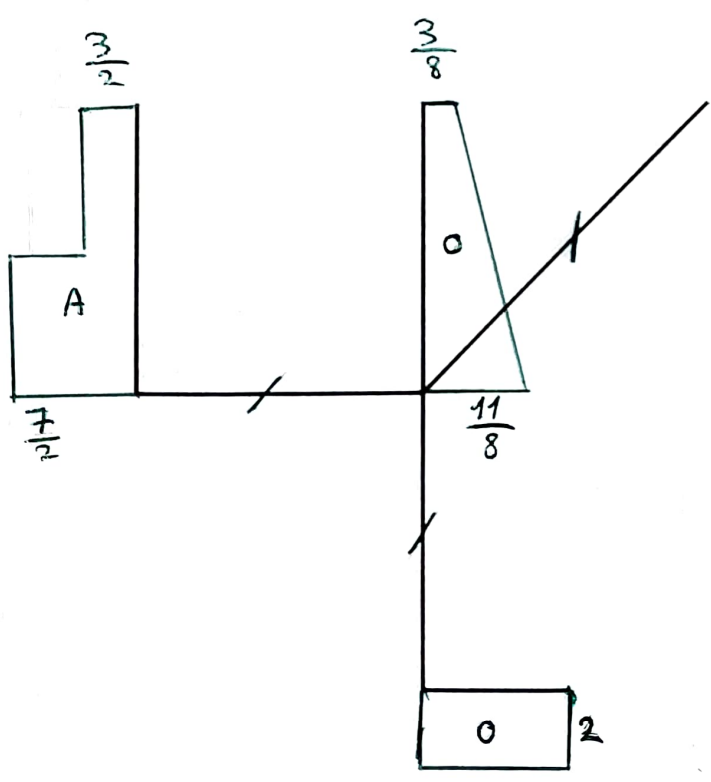
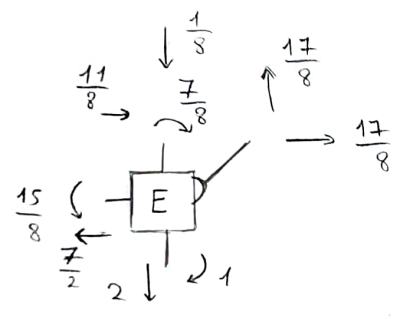
✓ EQUILIBRIO M



✓ Eq. M



$$\frac{N}{98}$$



$$\frac{V}{98}$$

