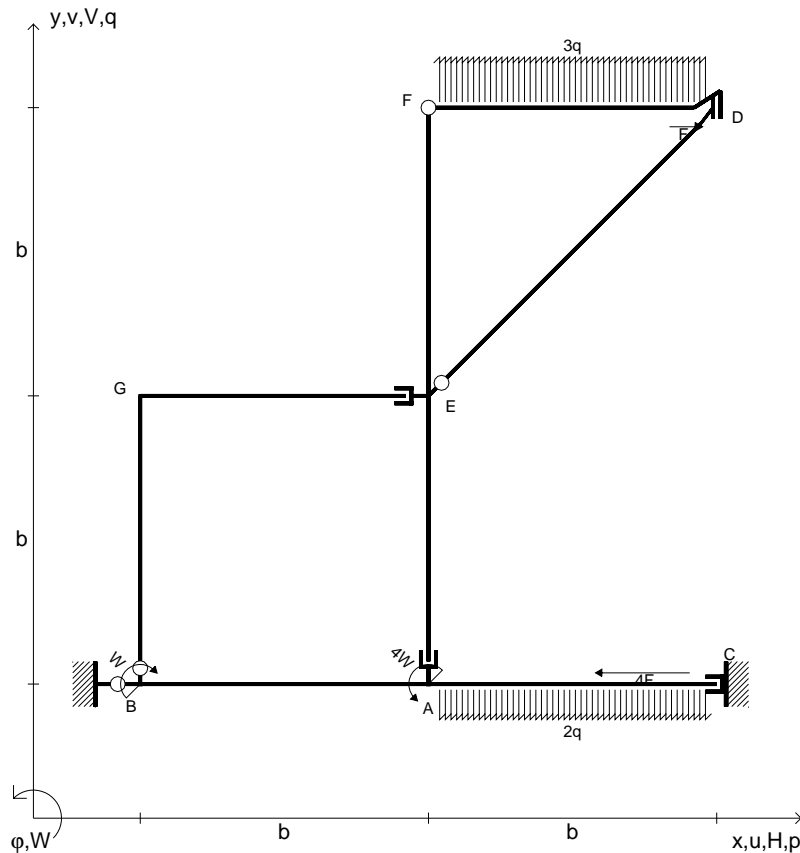


$$\begin{aligned} H_{CA} &= -4F \\ H_{DE} &= F \\ W_B &= -W = -Fb \\ W_A &= 4W = 4Fb \\ q_{CA} &= -2q = -2F/b \\ q_{DF} &= 3q = 3F/b \\ V_A &= ? \\ \Phi_B &= ? \\ EJ_{AB} &= EJ \\ EJ_{CA} &= EJ \\ EJ_{DE} &= EJ \\ EJ_{DF} &= EJ \\ EJ_{EF} &= EJ \\ EJ_{AE} &= EJ \\ EJ_{EG} &= EJ \\ EJ_{BG} &= EJ \end{aligned}$$


Svolgere l'analisi cinematica.

Risolvere con LE e/o PLV.

Riportare RV finali in forma grafica e analitica.

Riportare la soluzione sul testo (AC,RV,N,T,M con valori).

Tracciare la deformata elastica del tratto ABC.

Consegnare la relazione di calcolo.

Carichi e deformazioni date hanno verso efficace in disegno.

Calcolare reazioni vincolari della struttura e delle aste.

Tracciare i diagrammi quotati delle azioni interne nelle aste.

Esprimere la linea elastica delle aste. AB CA

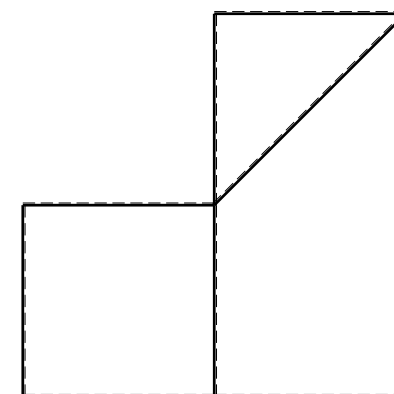
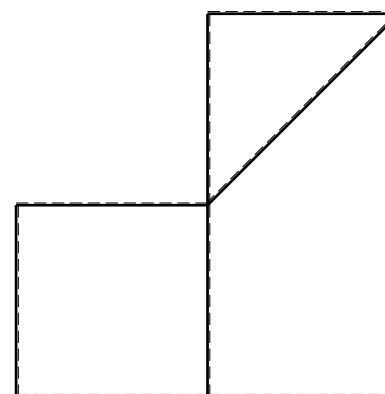
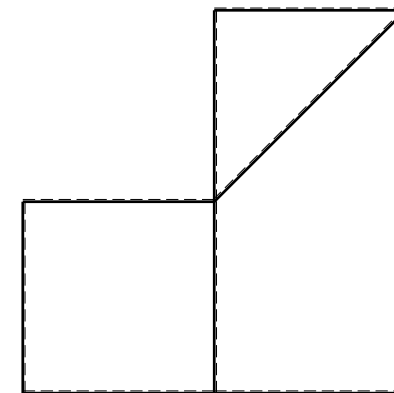
J_{YZ} - x_{YZ} - θ_{YZ} riferimento locale asta YZ con origine in Y.

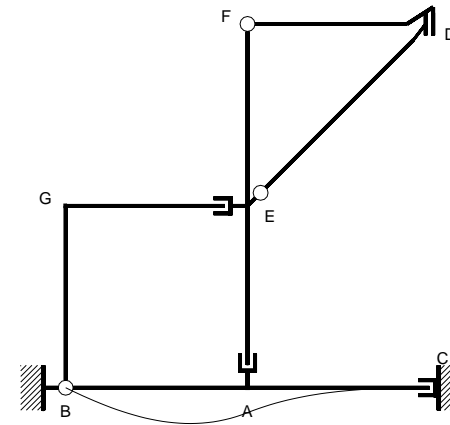
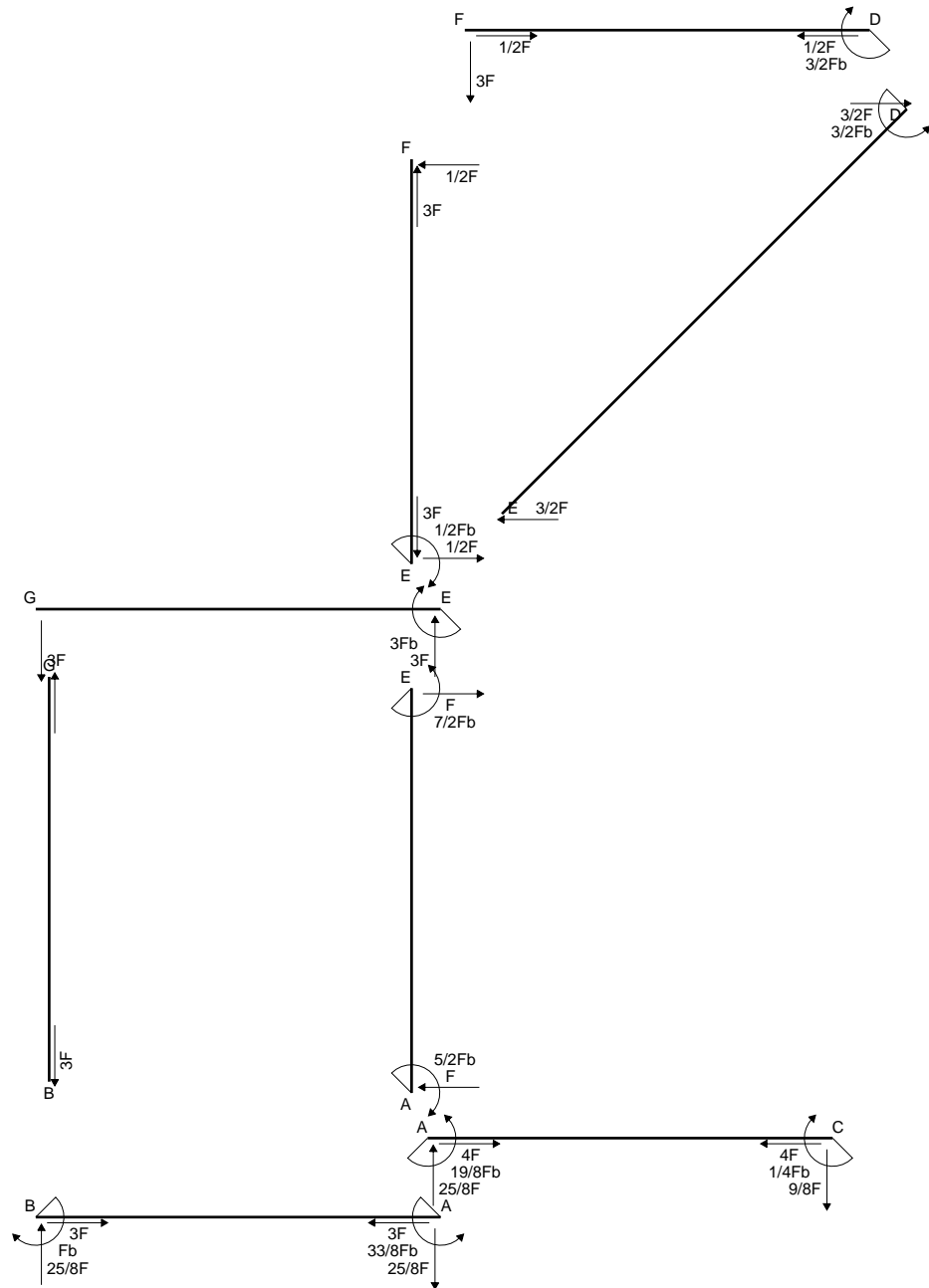
Calcolare lo spostamento verticale del nodo A

Calcolare la rotazione assoluta del nodo B

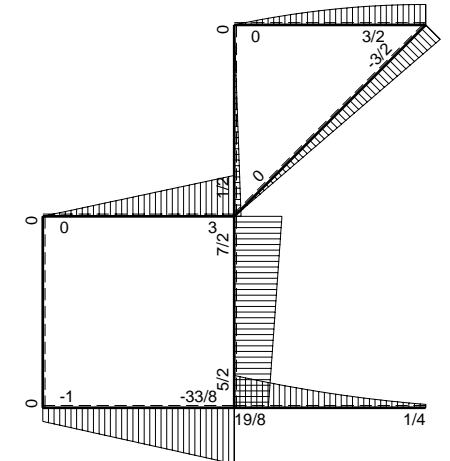
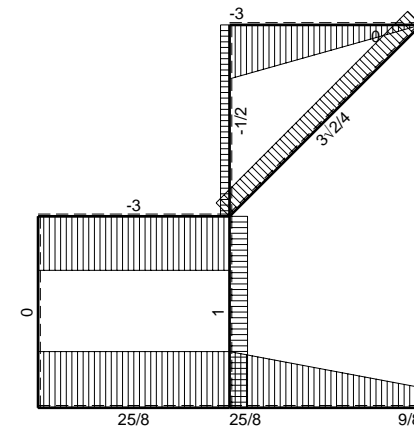
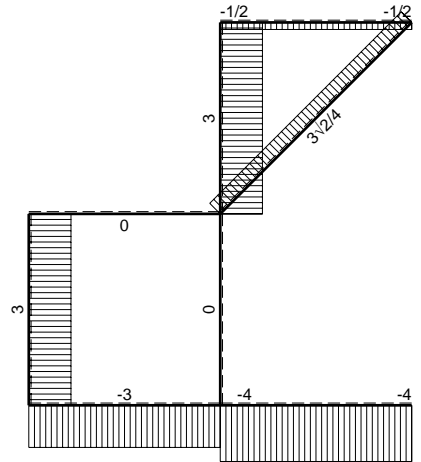
$$V_A =$$
$$\varphi_B =$$


Indicare il verso del riferimento locale AB oppure BA

$$AB - BA \quad y(x)EJ =$$
$$CA AC y(x)EJ=$$




$$\text{H} \text{---} \text{H} \text{---} 1.2 \text{ Fb}^3/\text{EJ}$$





F_b

DEFORMATA (coordinate locali)

AB $y(x)EJ = 19/48Fb^3 + 55/48xFb^2 - 33/16x^2Fb + 25/48x^3F$

BA $y(x)EJ = -17/12xFb^2 + 1/2x^2Fb + 25/48x^3F$

CA $y(x)EJ = 1/8x^2Fb + 3/16x^3F + 1/12x^4q$

AC $y(x)EJ = -19/48Fb^3 + 55/48xFb^2 - 19/16x^2Fb + 25/48x^3F - 1/12x^4q$

SPOSTAMENTI ASSOLUTI

$v_A = -19/48(Fb^3/EJ)$

$\phi_{BBA} = -17/12(Fb^2/EJ)$

