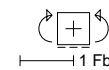
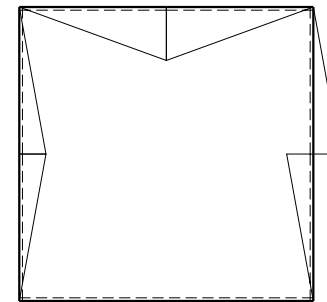
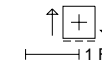
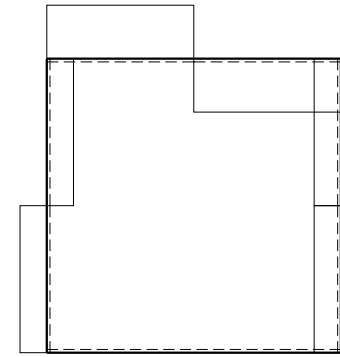
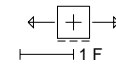
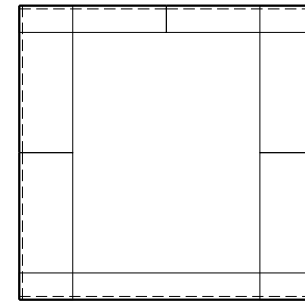


$$\begin{array}{lll}
 H_E = F & W_G = -W = -Fb & X_{ED} \\
 V_F = -2F & X_{AE} & X_{DF} \\
 & & X_{FC} \\
 & & X_{CG} \\
 & & X_{GB} \\
 & & X_{BA}
 \end{array}$$

Verso effettivo dei carichi riportato nel disegno.  
 Calcolare reazioni vincolari della struttura e delle aste.  
 Tracciare i diagrammi delle azioni interne nelle aste.  
 Esprimere le funzioni delle azioni interne nelle aste.  
 $J_{AB}$   $x_{AB}$   $\vartheta_{AB}$  riferimento locale asta AB con origine in A.

MANTENERE I RISULTATI IN FORMA FRAZIONARIA



## REAZIONI

$$\begin{aligned} H_A &= 0 \\ V_A &= F \\ V_B &= F \\ H_C &= -F \end{aligned}$$

|                  |                   |                  |                  |
|------------------|-------------------|------------------|------------------|
| $H_{AE} = -1/2F$ | $H_{ED} = 1/2F$   | $H_{DF} = 1/2F$  | $H_{FC} = 1/2F$  |
| $V_{AE} = F$     | $V_{ED} = F$      | $V_{DF} = F$     | $V_{FC} = -F$    |
| $W_{AE} = 0$     | $W_{ED} = -1/2Fb$ | $W_{DF} = 0$     | $W_{FC} = -Fb$   |
| $H_{EA} = 1/2F$  | $H_{DE} = -1/2F$  | $H_{FD} = -1/2F$ | $H_{CF} = -1/2F$ |
| $V_{EA} = -F$    | $V_{DE} = -F$     | $V_{FD} = -F$    | $V_{CF} = F$     |
| $W_{EA} = 1/2Fb$ | $W_{DE} = 0$      | $W_{FD} = Fb$    | $W_{CF} = 0$     |

|                   |                   |                  |
|-------------------|-------------------|------------------|
| $H_{CG} = -1/2F$  | $H_{GB} = -1/2F$  | $H_{BA} = -1/2F$ |
| $V_{CG} = -F$     | $V_{GB} = -F$     | $V_{BA} = 0$     |
| $W_{CG} = 0$      | $W_{GB} = -1/2Fb$ | $W_{BA} = 0$     |
| $H_{GC} = 1/2F$   | $H_{BG} = 1/2F$   | $H_{AB} = 1/2F$  |
| $V_{GC} = F$      | $V_{BG} = F$      | $V_{AB} = 0$     |
| $W_{GC} = -1/2Fb$ | $W_{BG} = 0$      | $W_{AB} = 0$     |

## AZIONI INTERNE (coordinate locali)

|                    |                          |                          |
|--------------------|--------------------------|--------------------------|
| $N_{AE} = -F$      | $N_{ED} = -F$            | $N_{DF} = -1/2F$         |
| $T_{AE} = 1/2F$    | $T_{ED} = -1/2F$         | $T_{DF} = F$             |
| $M_{AE} = 1/2Fx$   | $M_{ED} = 1/2Fb - 1/2Fx$ | $M_{DF} = Fx$            |
| $N_{FC} = -1/2F$   | $N_{CG} = -F$            | $N_{GB} = -F$            |
| $T_{FC} = -F$      | $T_{CG} = -1/2F$         | $T_{GB} = -1/2F$         |
| $M_{FC} = Fb - Fx$ | $M_{CG} = -1/2Fx$        | $M_{GB} = 1/2Fb - 1/2Fx$ |
| $N_{BA} = -1/2F$   |                          |                          |
| $T_{BA} = 0$       |                          |                          |
| $M_{BA} = 0$       |                          |                          |