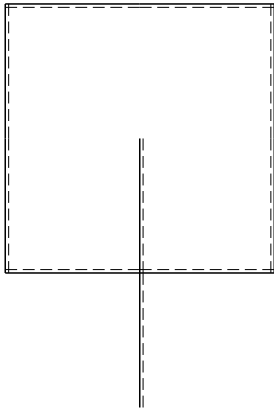
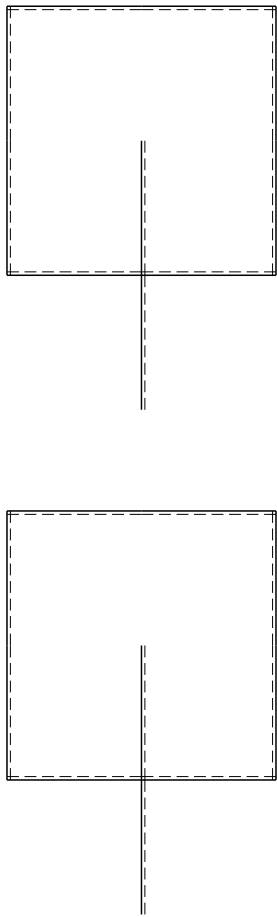
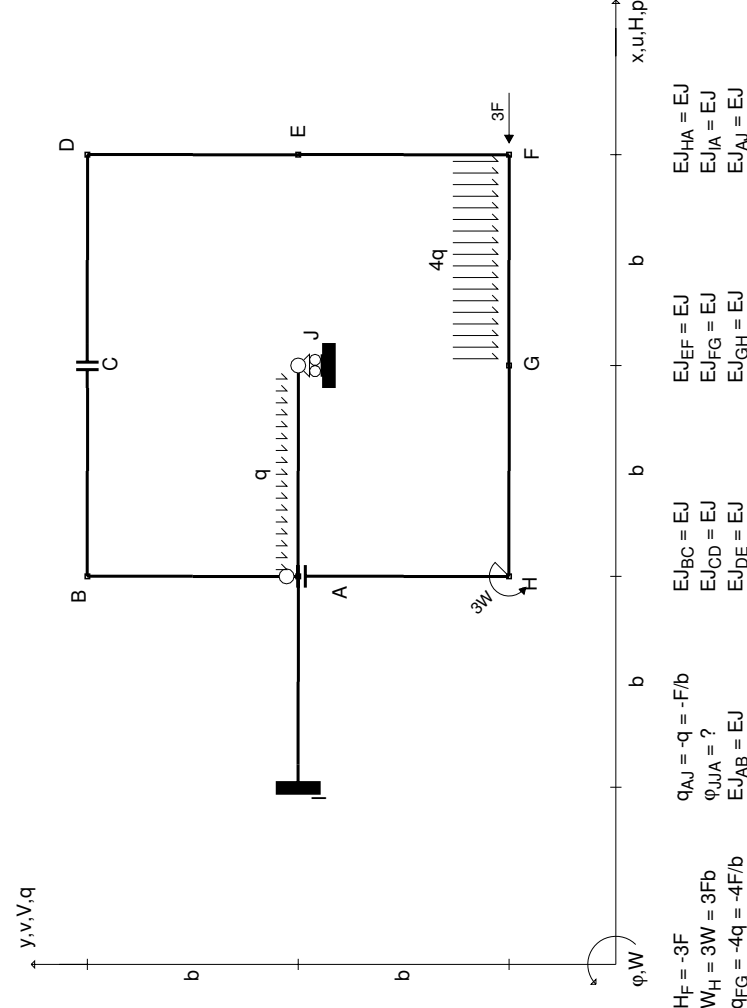


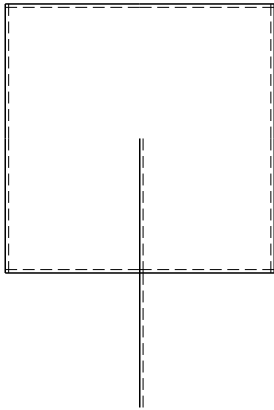
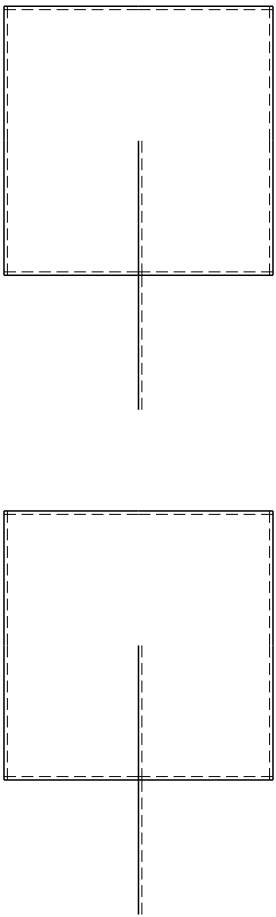
$\varphi_{JJA} =$



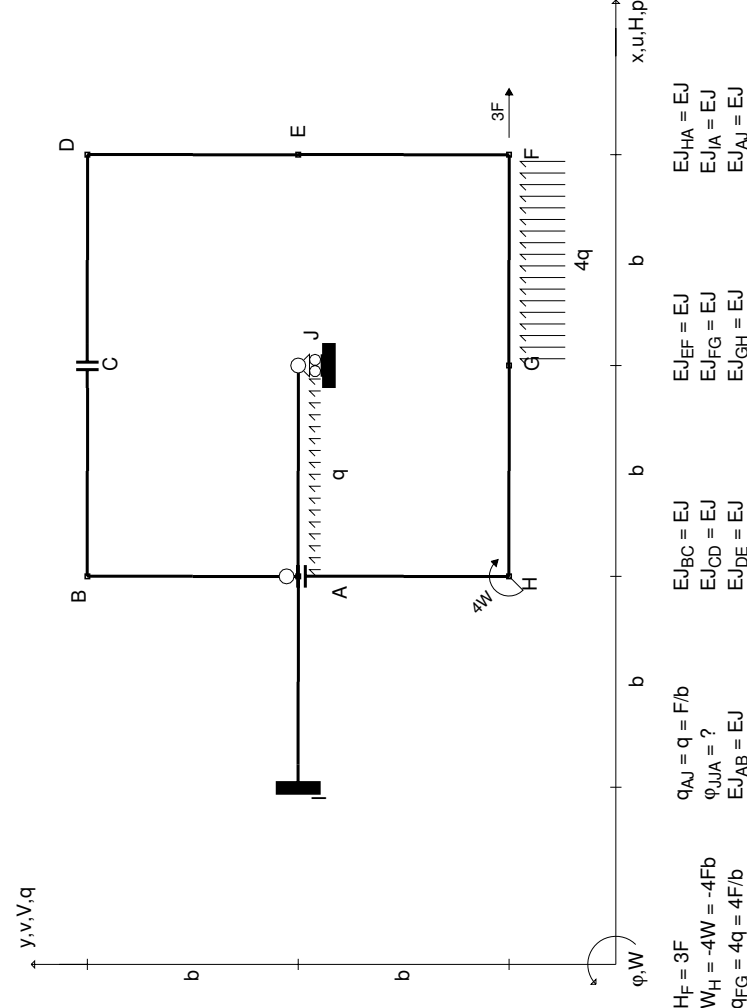
Carichi e deformazioni date hanno verso efficace in disegno.
Calcolare reazioni vincolari della struttura e delle aste.
Tracciare i diagrammi delle azioni interne nelle aste.
 $J_{YZ} - X_{YZ} - \varphi_{YZ}$ riferimento locale asta YZ con origine in Y
Calcolare la rotazione assoluta del nodo J su asta JA
Svolgere l'analisi cinematica.
Riportare la soluzione su questo foglio.



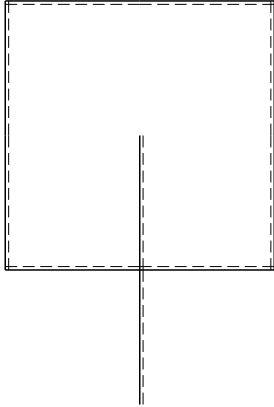
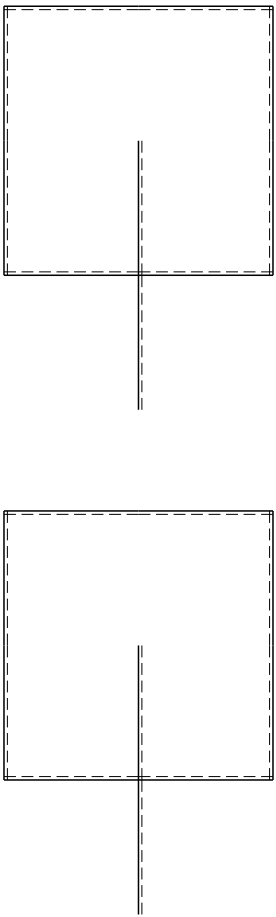
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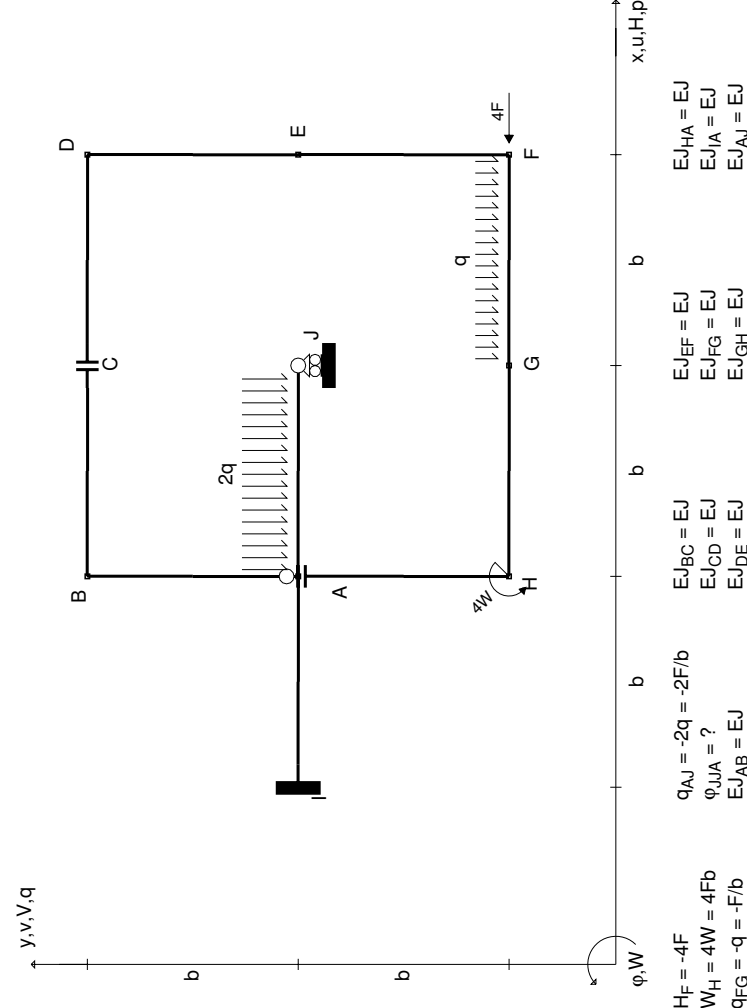
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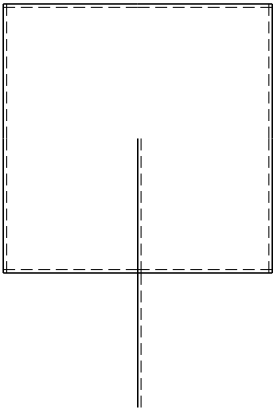
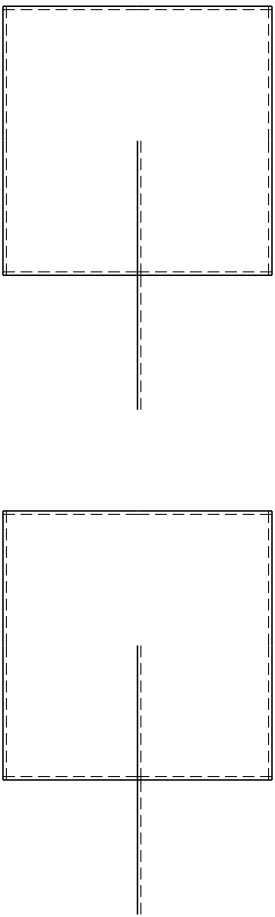


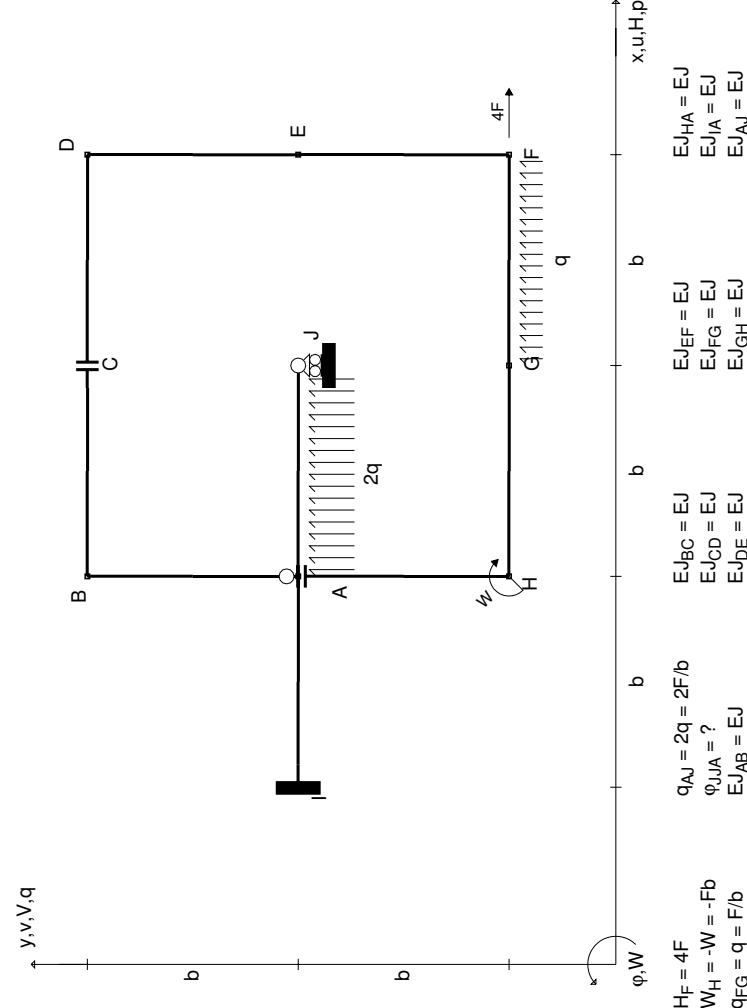
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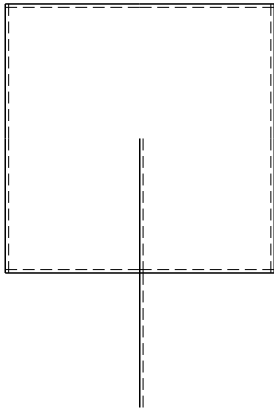
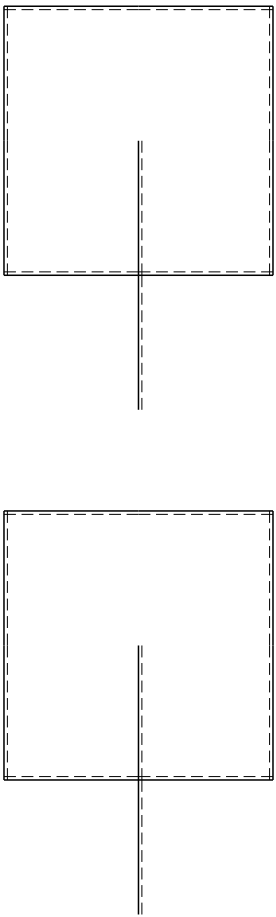
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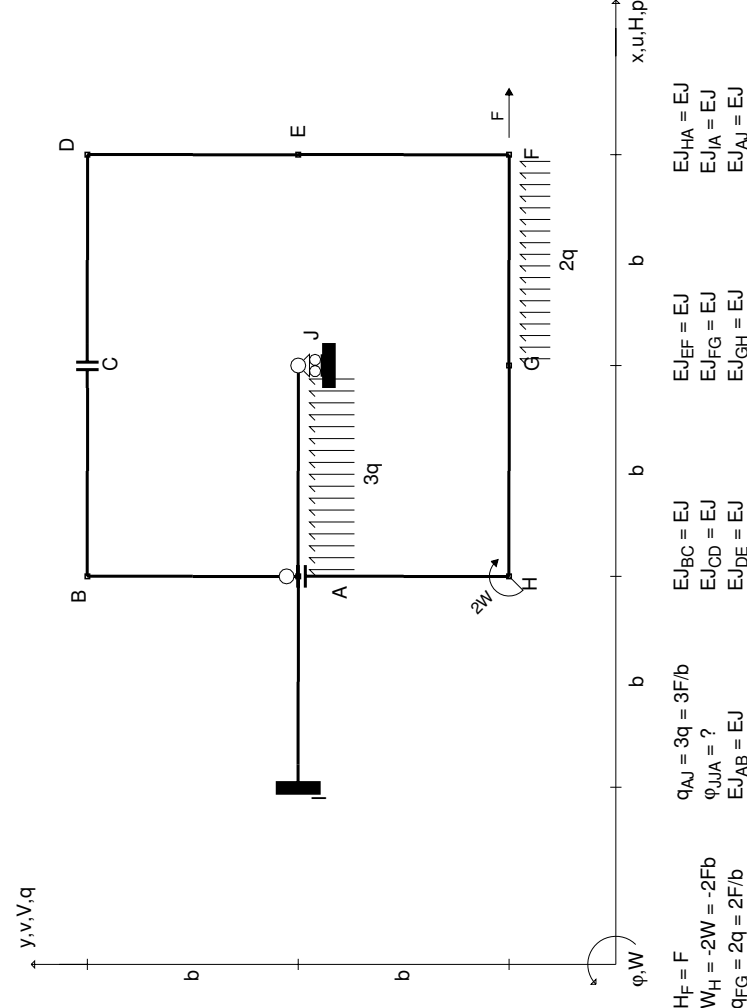




$\phi_{JJA} =$

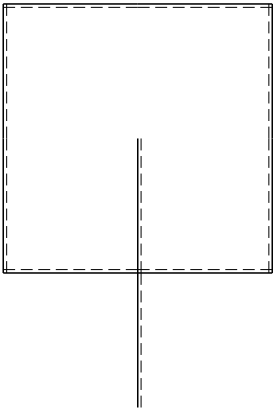
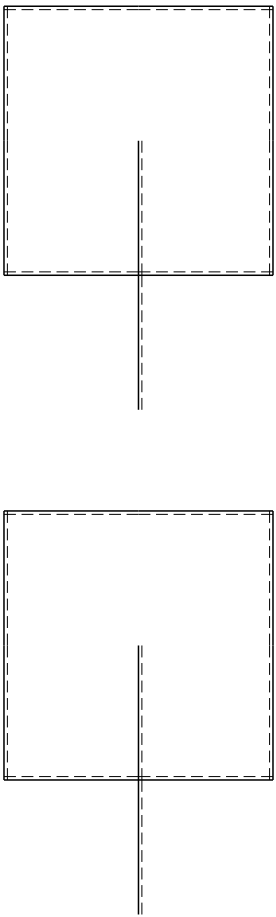


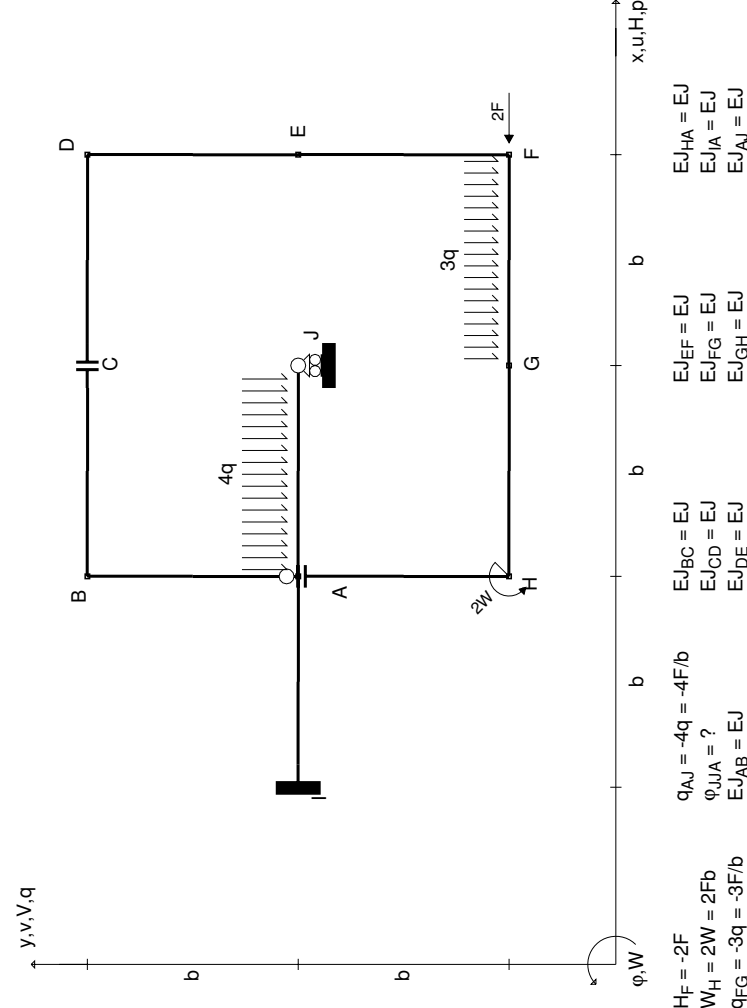
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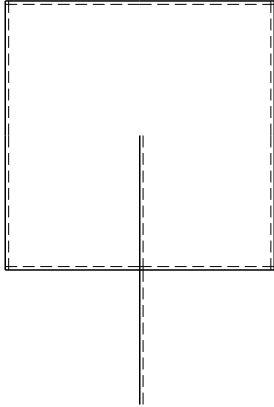
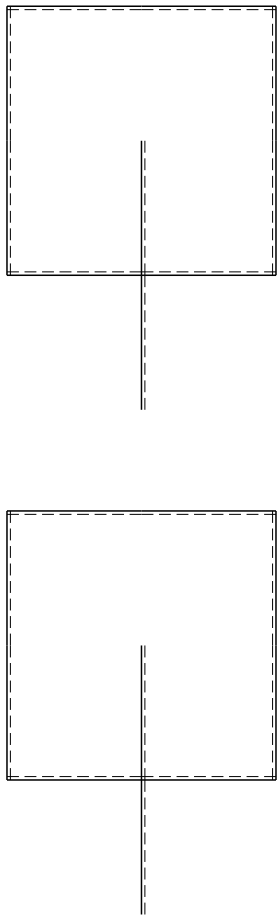
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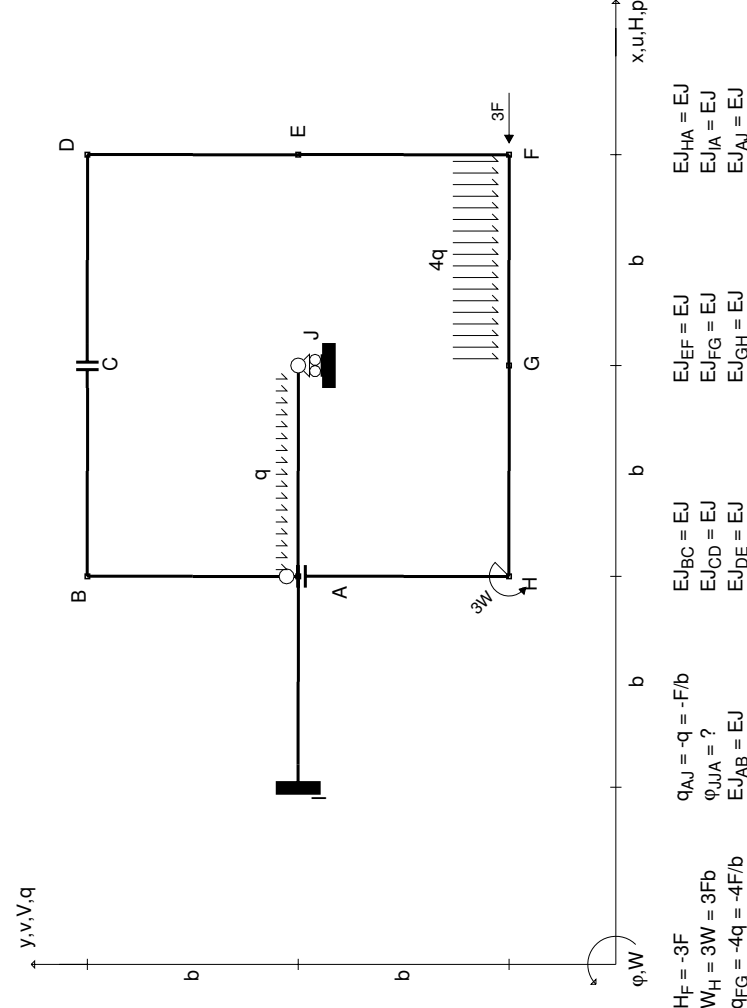




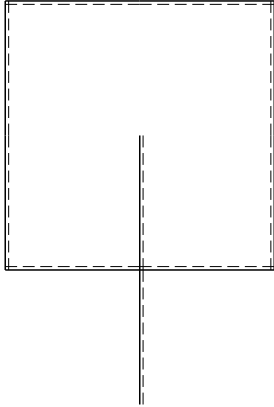
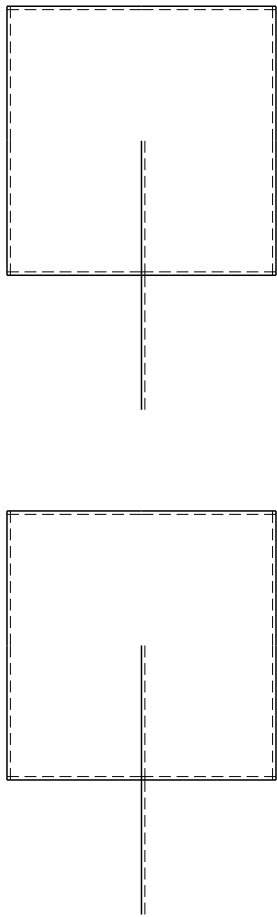
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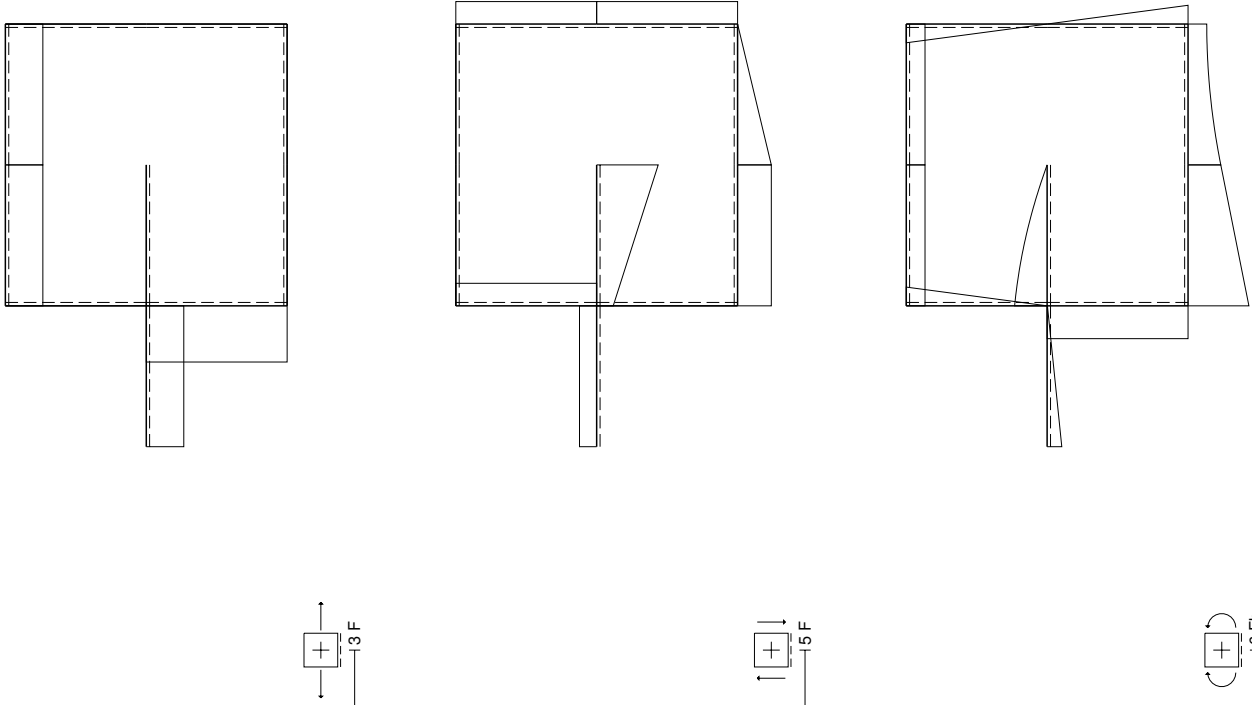
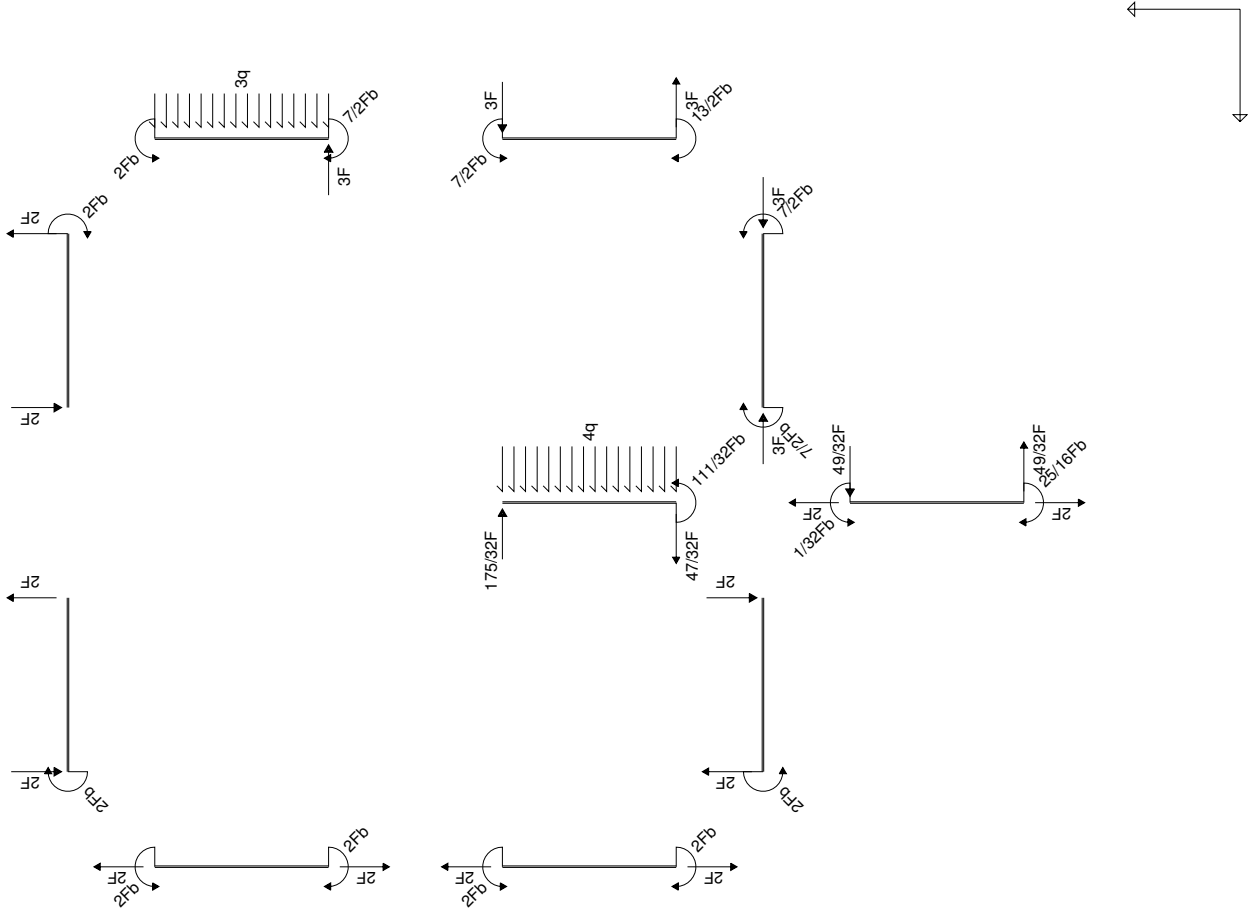


$\varphi_{JA} =$

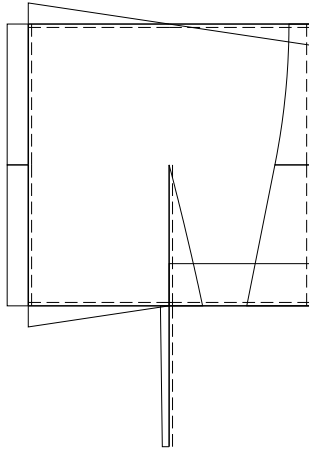
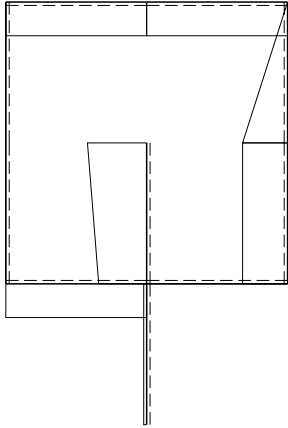
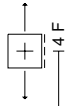
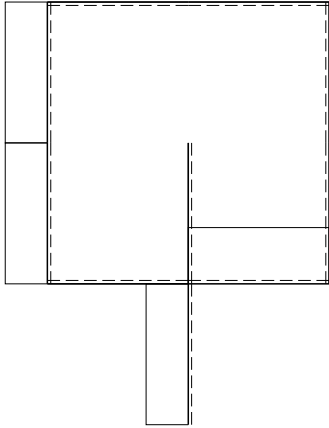
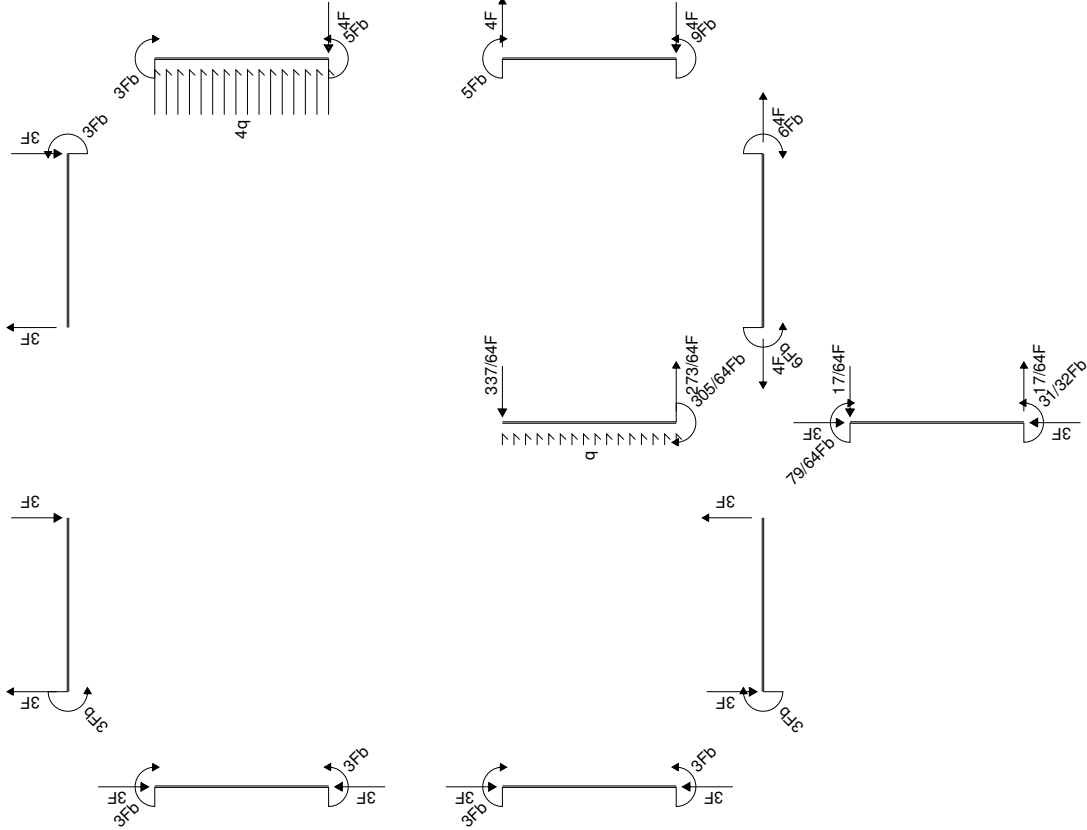


Carichi e deformazioni date hanno verso efficace in disegno.
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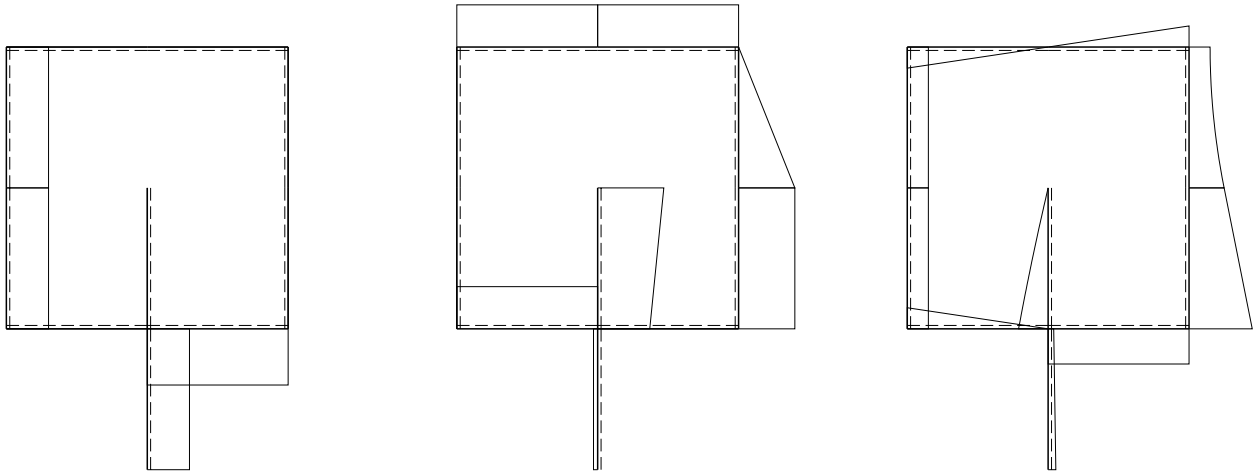
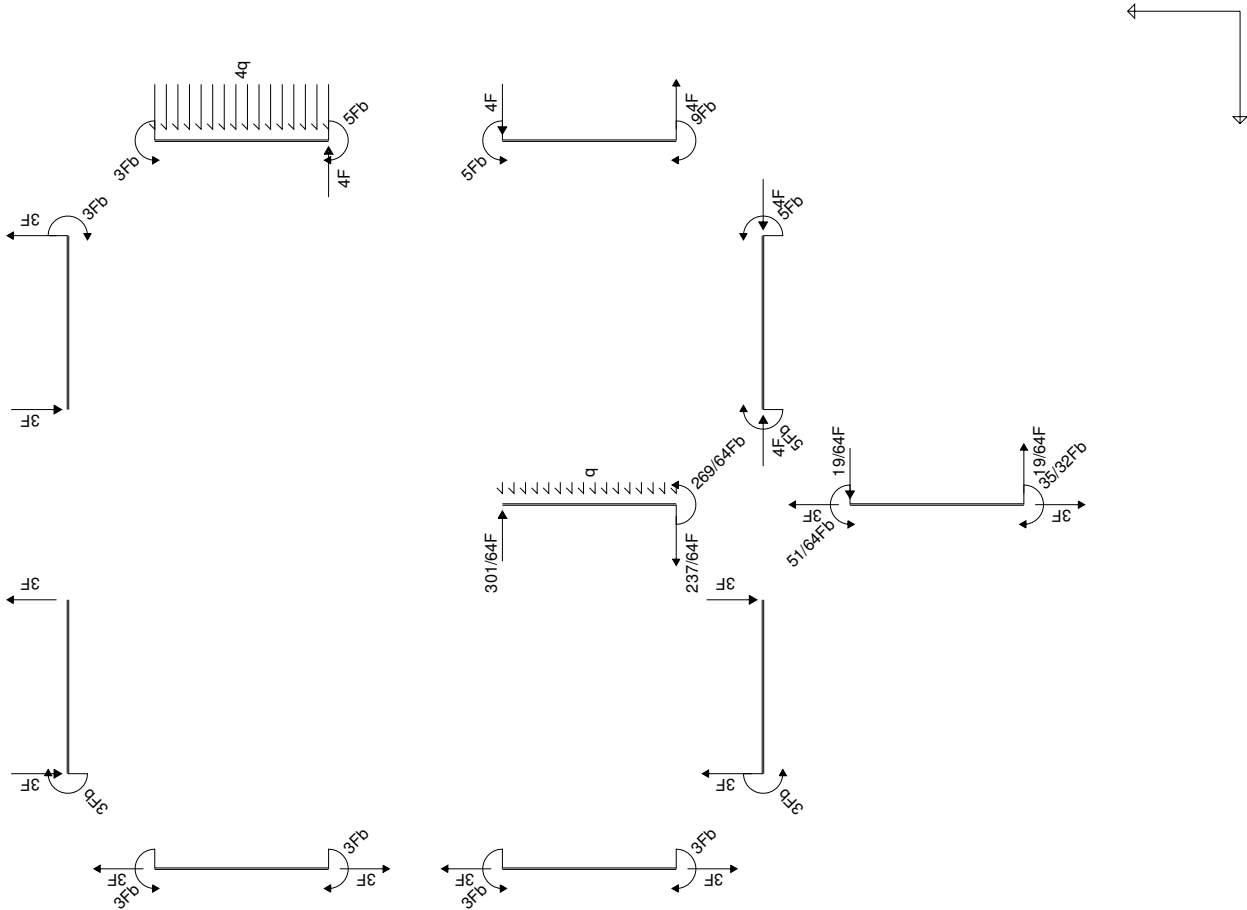
$\varphi_J = -61/48(Fb^2/EJ)$

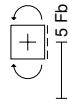
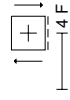
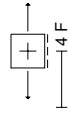


$\varphi_J = 131/96(Fb^2/EJ)$

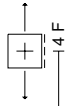
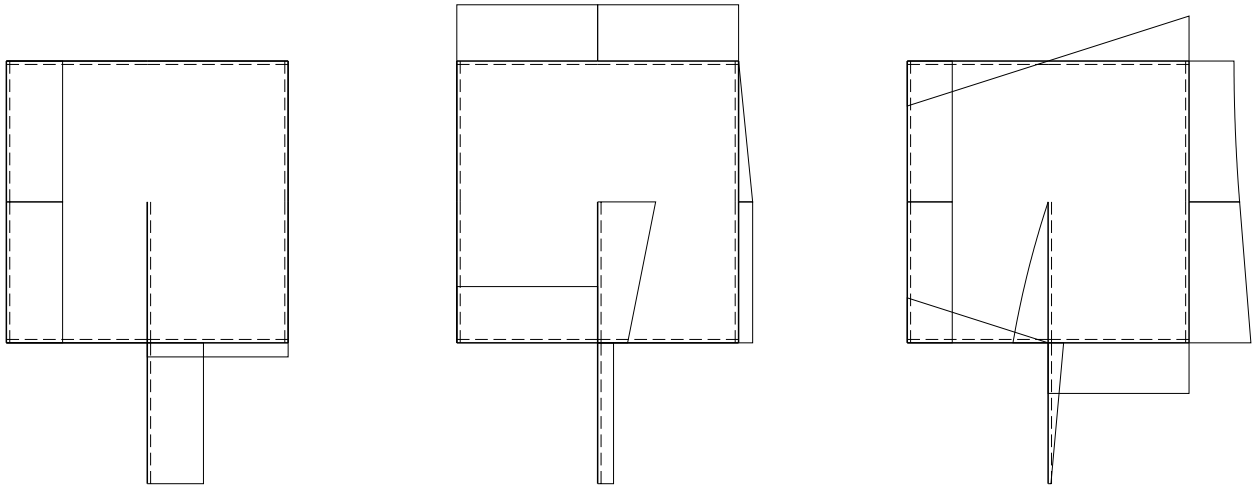
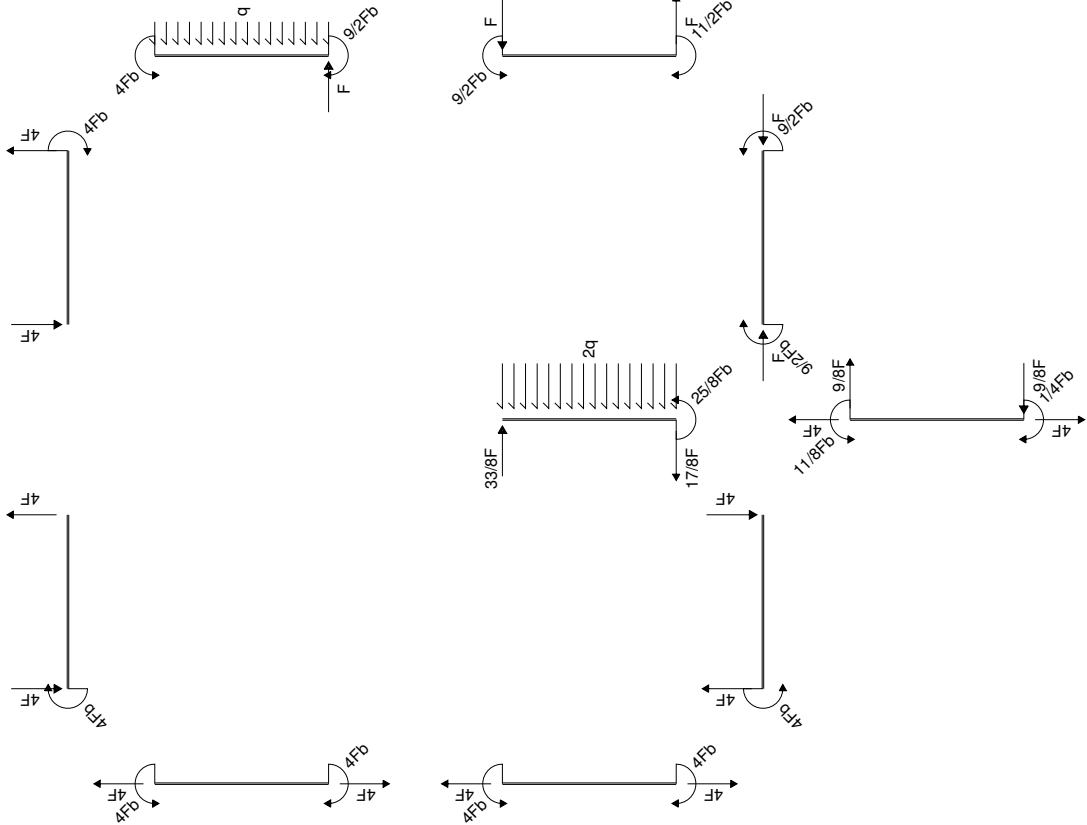


$\varphi_J = -119/96(Fb^2/EJ)$

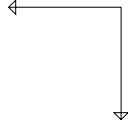
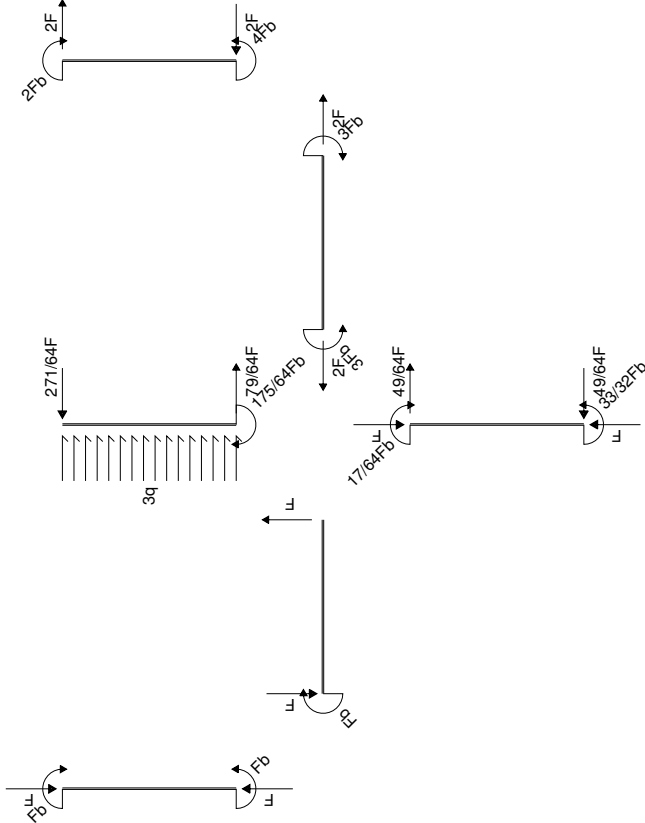
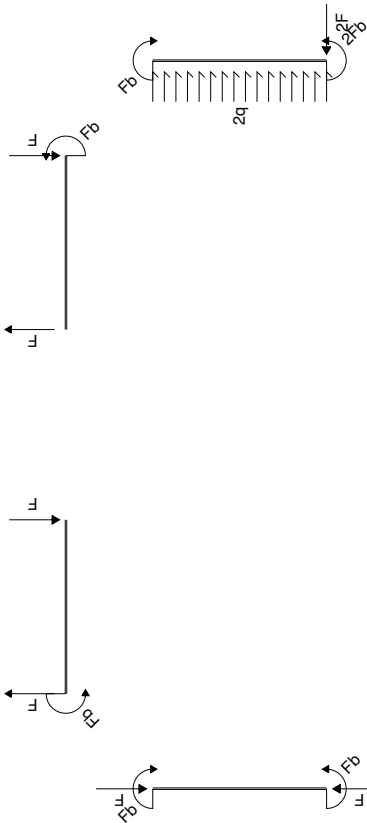
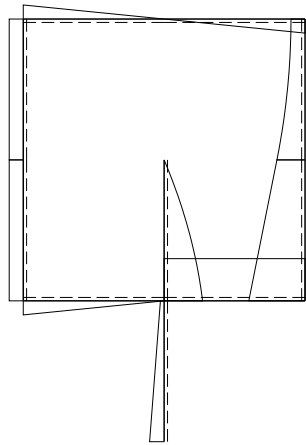
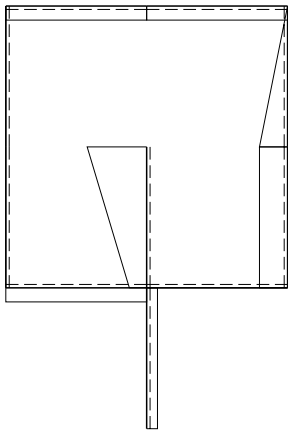
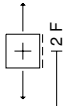
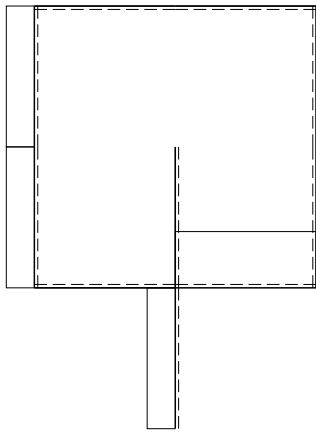




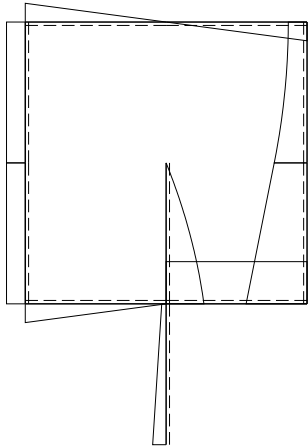
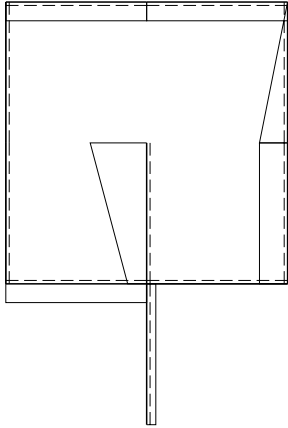
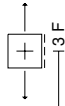
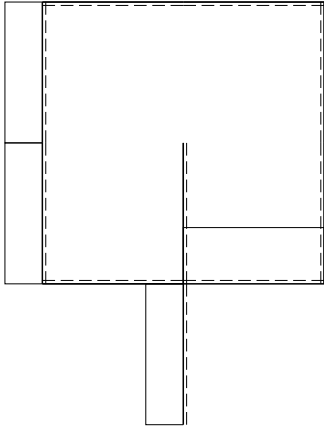
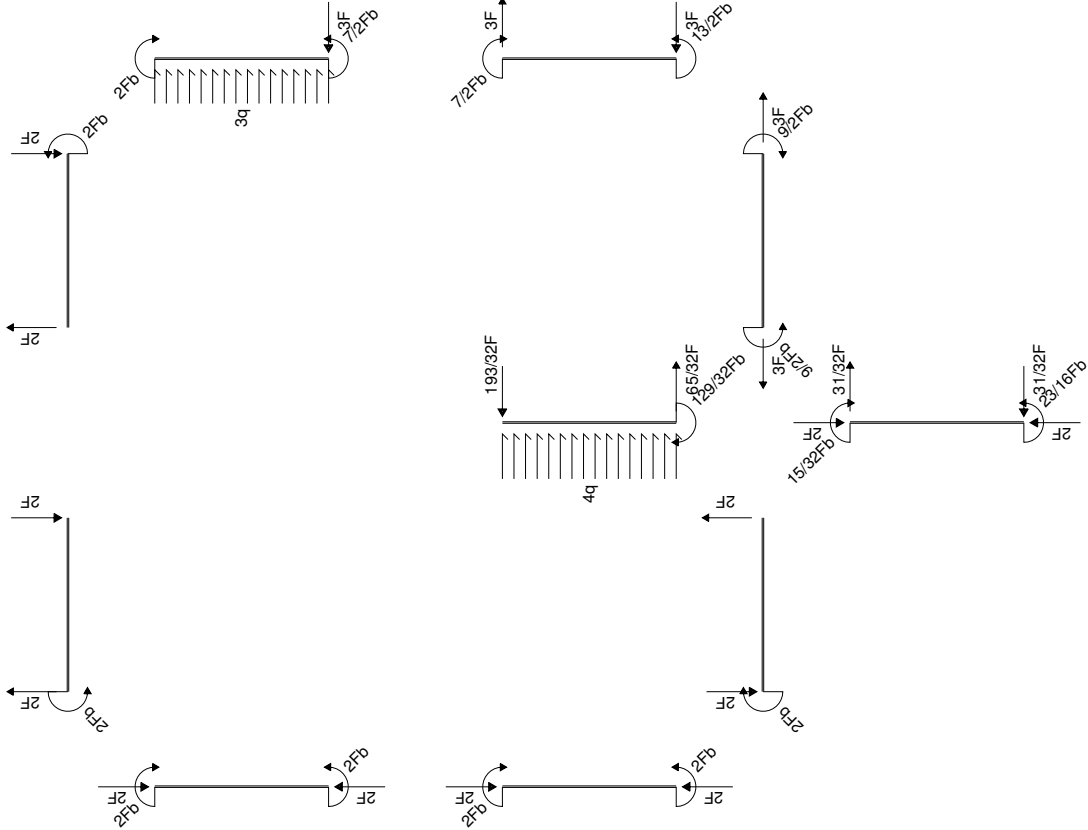
$\varphi_J = -11/12(Fb^2/EJ)$



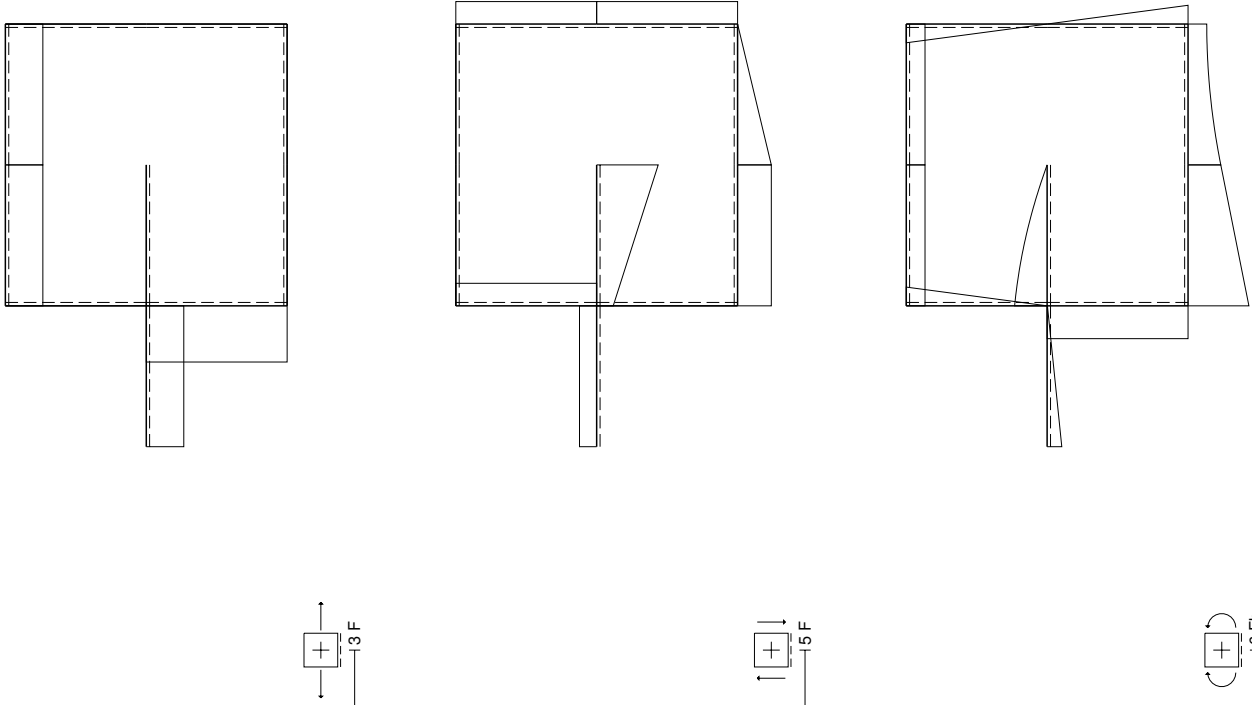
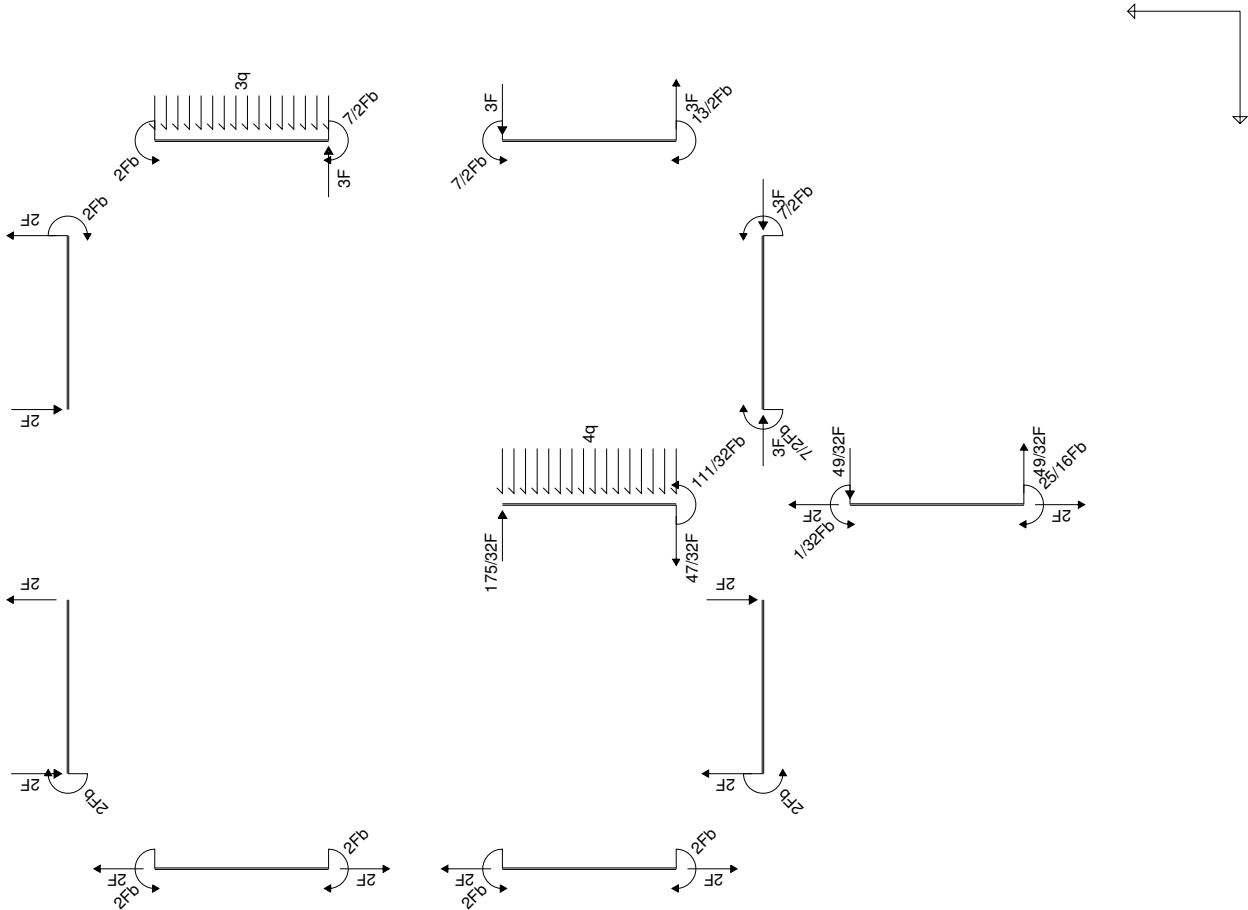
$q_0 = 31/32(Fb^2/EJ)$



$q_0 = 67/48(Fb^2/EJ)$



$\varphi_J = -61/48(Fb^2/EJ)$



$\varphi_J = 131/96(Fb^2/EJ)$

