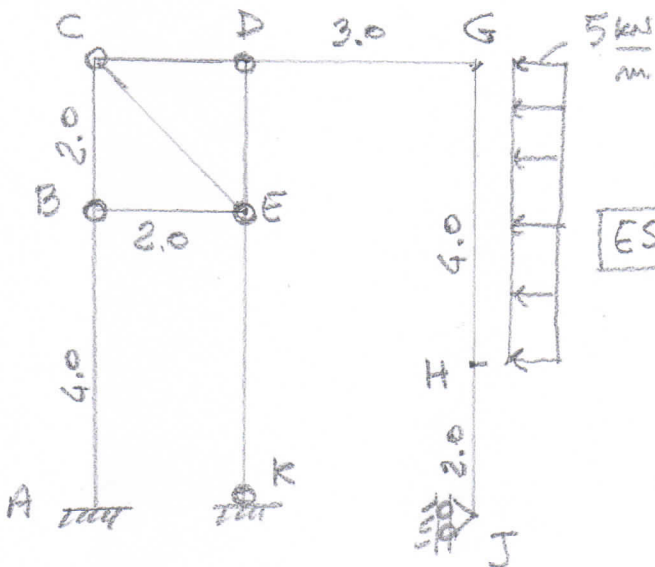


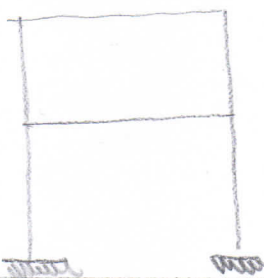
ES.1

- R.V. ext (A, C, D, H) e int. (B, E)
- Diagrammi quotati: N, T, M



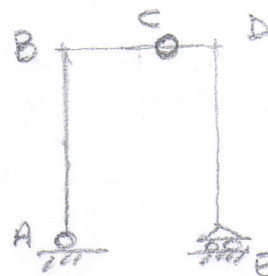
ES.2

- R.V. ext (A, K, J) e int. (B, E, D)
- Diagrammi quotati di T, M dove diversi da zero
- Sforzi normali nelle aste AB, EK, DG
- Sforzi normali nelle aste CD, DE, CE
- Posizione e valore di  $\Pi_{max}$  in GJ

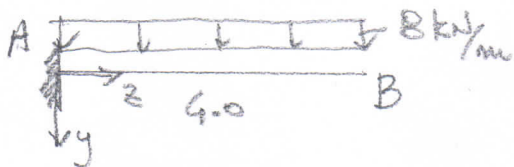


- Ricostruire strutture
- Renderle isostatiche senza eliminare tratti

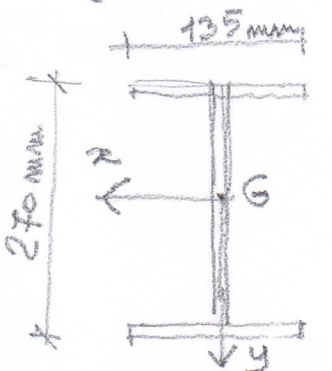
ES.3



- Determinare i centri di rotazione



ES.4



IPE 270  
 $A = 45.90 \text{ cm}^2$   
 $I_x = 5790 \text{ cm}^4$   
 $I_y = 420 \text{ cm}^4$   
 $M = M_{max}^{AB}$

- Determinare  $|M_{AB}|_{max}$  e disegnare  $M_{max}$  sulle sezioni
- $\sigma, \tau, \nu$  con  $M = M_{max}^{AB}$
- Diagramma  $\sigma_z$
- Determinare  $\sigma_{z_{max}}$
- Determinare un punto del nocciolo centrale d'inerzia