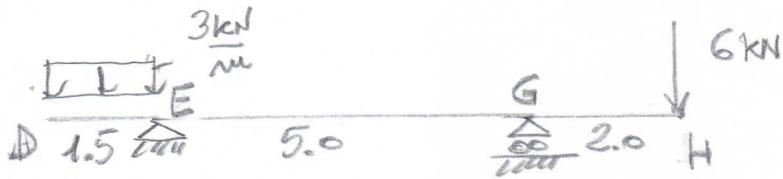
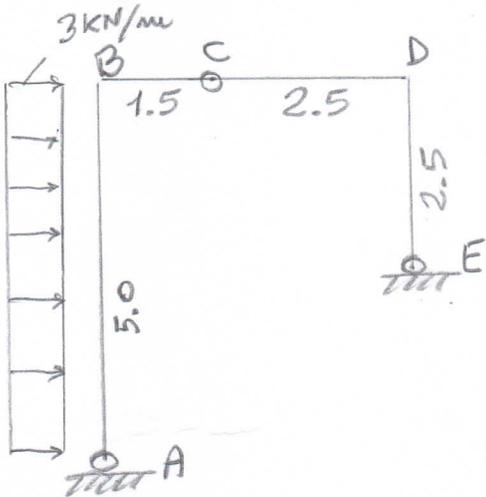


ES.1



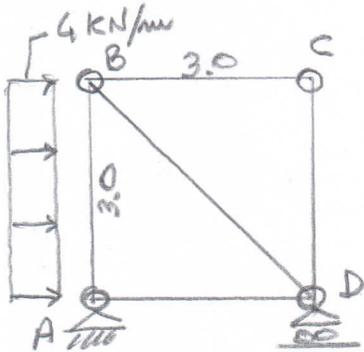
- Abbassamento di B sapendo che  $E = 20000 \frac{N}{mm^2}$  e  $A = 1 \text{ cm}^2$

- R.V. in A, E, G
- Diagrammi quotati: N, T, M su ABC
- Diagrammi quotati: T, M su DEGH



ES.2

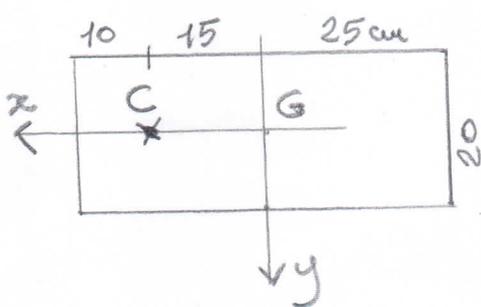
- R.V. ext (A, E)
- R.V. int. (C)
- Diagrammi quotati di N, T, M
- Posizione e valore di  $M_{max}$  in AB



$R_{Ax} = \leftarrow 12$   
 $R_{Ay} = \downarrow 6$   
 $R_D = \uparrow 6$

ES.3

- Sforzi normali in BC, CD, AB
- Sforzi normali in AD, BD



$N_C = -40 \text{ kN}$

ES.4

- A,  $I_x, I_y$
- $\bar{x}, \bar{y}$
- asse neutro n
- Diagramma  $\sigma_z$
- $\sigma_z^{max}$  e  $\sigma_z^{min}$