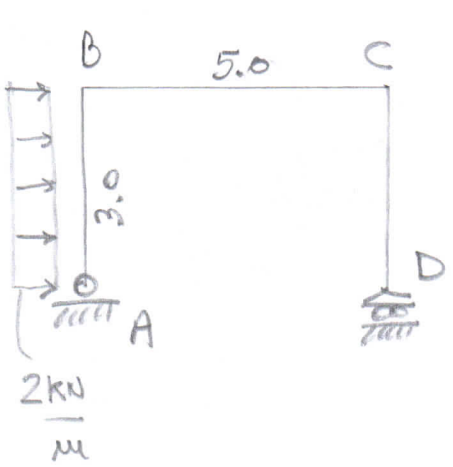
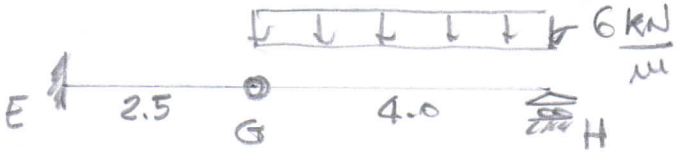
07/09/2020 COGNOME _____ NOME _____

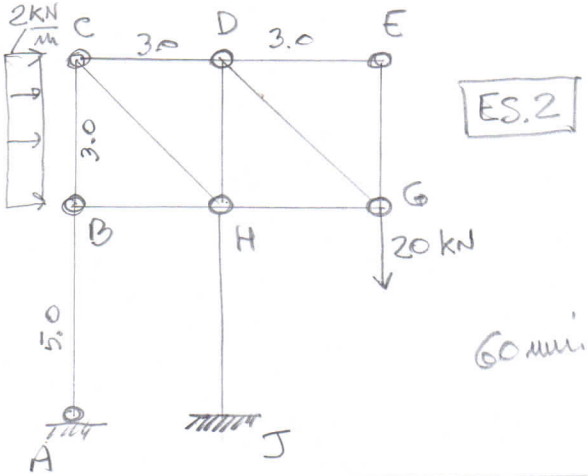




60 min

ES.1

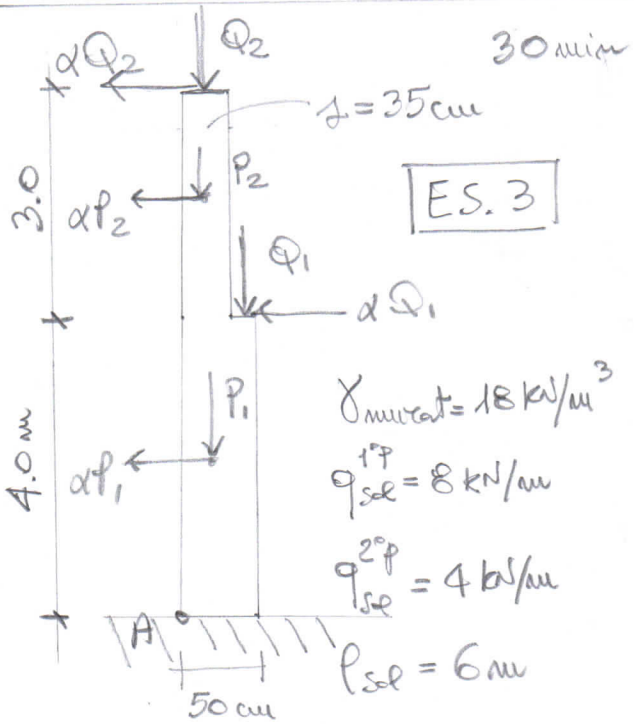
- R.V. (A, D, E, G, H)
- Diagrammi quotati di N, T, M su ABCD
- Diagrammi quotati di T, M su EGH



60 min

ES.2

- R.V. ext (A, J) e int (B, H)
- Diagrammi quotati di N, T, M su AB, HJ, BC
- Equilibrio nod. B, E, G (G anche grafico) e relativi sforzi assiali
- Equilibrio nod. C, D e relativi sforzi assiali



30 min

ES.3

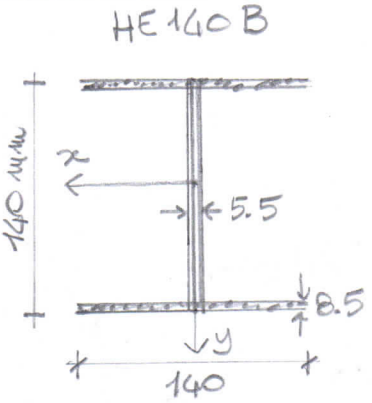
$\gamma_{muratura} = 18\ kN/m^3$

$q_{sol}^{1°P} = 8\ kN/m$

$q_{sol}^{2°P} = 4\ kN/m$

$\rho_{sol} = 6\ m$

- Determinare Q_1, Q_2, P_1, P_2
- Determinare α che soddisfi equilibrio alla rotazione intorno ad A



$A = 31.6\ cm^2$

$I_x = 1033\ cm^4$

$I_y = 389\ cm^4$

ES.4

Applicato $M_x = 15\ kNm$ determinare:

- G, s, m, n

45 min

- Diagramma σ_z
- Valore di $|\sigma_z|_{max}$

Applicato: $M_x = 15\ kNm + M_y = 5\ kNm$ determinare:

- s, m, n
- Diagramma σ_z
- Valori di σ_z^{max} e σ_z^{min}