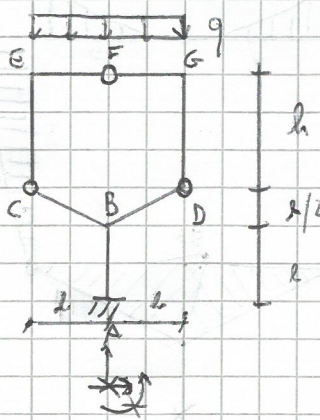




$$l = 2 \text{ m}$$

$$h = 3 \text{ m}$$

$$q = 20 \text{ kN/m}$$

$$\alpha = \arctg\left(\frac{l/2}{h}\right) = 26.6^\circ$$

Reazioni vincolari

$$H_A = 0$$

$$M_A = 0$$

$$V_A = 2ql = 80 \text{ kN}$$

Apo in F

$T_F = 0$ peso simmetrica

$$\sum \rightarrow -q \frac{l}{2} l - N_F h = 0$$

$$N_F = -q \frac{l}{2} l \cdot \frac{1}{h} = -13.3 \text{ kN}$$

Tratto EF

$$N(z_1) = -q \frac{l}{2} l \cdot \frac{1}{h} = -13.3 \text{ kN}$$

$$T(z_1) = +qz$$

$$M(z_1) = -\frac{qz^2}{2}$$

Tratto EC

$$N(z_2) = -ql = -40 \text{ kN}$$

$$T(z_2) = -13.3 \text{ kN}$$

$$M(z_2) = -q \frac{l^2}{2} + 13.3 z_2 = -40 + 13.3 z_2$$

Tratto CB

$$N(z_3) = -40 \cos \alpha + 13.3 \sin \alpha$$

$$T(z_3) = -40 \sin \alpha - 13.3 \cos \alpha$$

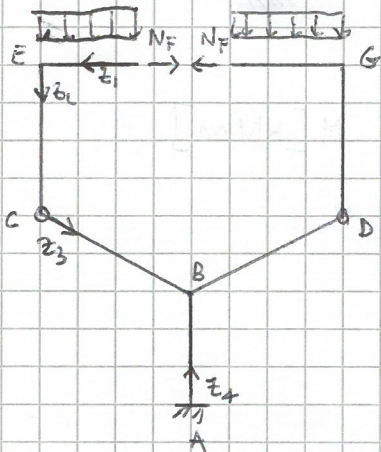
$$M(z_3) = 40 \cos \alpha z + 13.3 \sin \alpha z$$

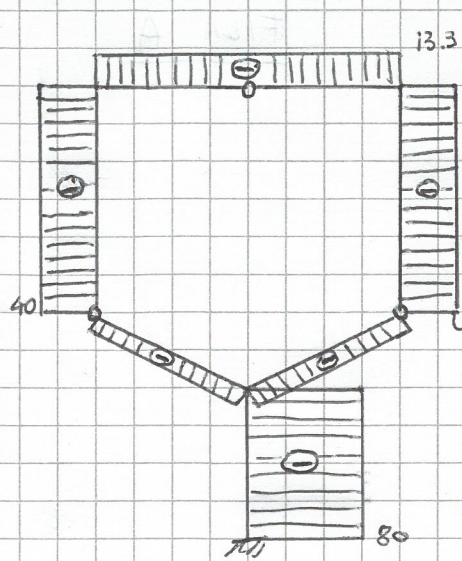
Tratto AB

$$N = -2ql = -80 \text{ kN}$$

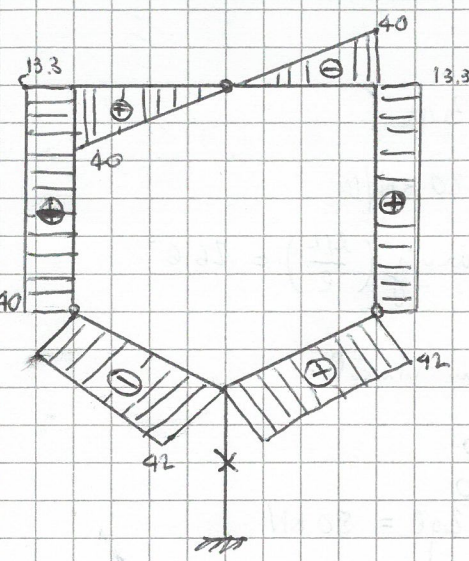
$$T = 0$$

$$M = 0$$

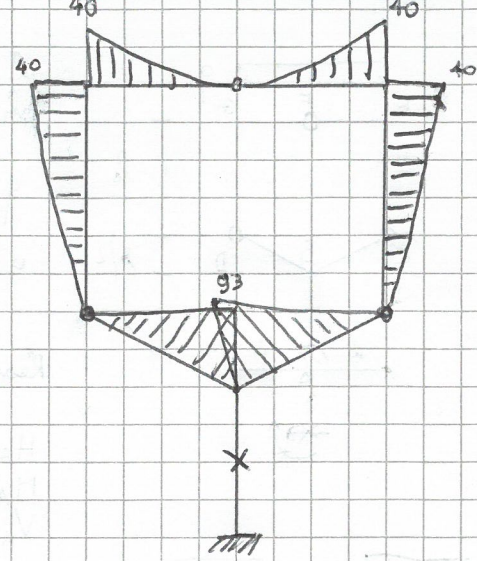




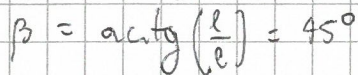
$N [kN]$



$T [kN]$

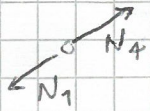


$M [kNm]$



$$N_5 = 13.4 \text{ kN}$$

Nodo E



$$N_1 = N_4$$

$$N_4 = -14.8 \text{ kN}$$

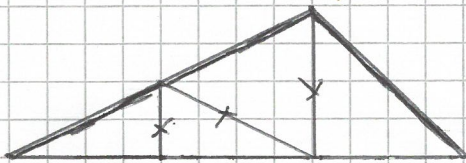
Nodo G



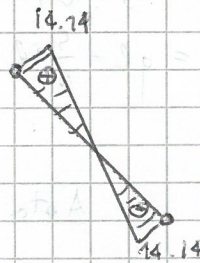
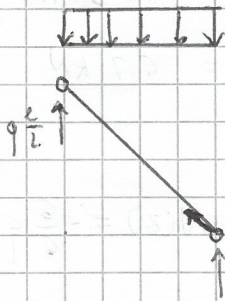
$$N_8 = 13.4 \text{ kN}$$

Asta	N [kN]
1	-14.8
2	13.4
3	0
4	-14.8
5	13.4
6	0
7	0
8	13.4
9	-18.9

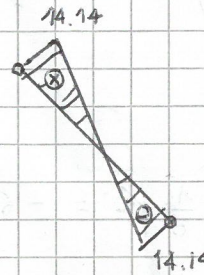
~~Stato secondario~~



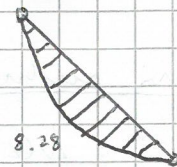
Stato secondario



N [kN]



T [kN]

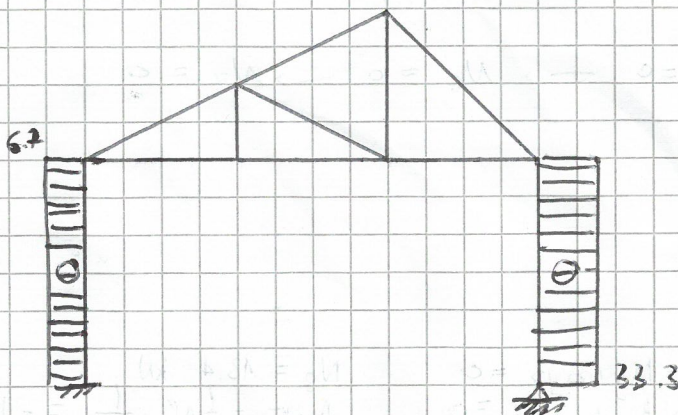


M [kN·m]

$$N(z) = -q \frac{l}{2} \cos \alpha + q z \sin \alpha \cos \alpha$$

$$T(z) = -q \frac{l}{2} \sin \alpha + q z \cos \alpha$$

$$M(z) = -q \frac{l}{2} z \sin \alpha + \frac{q (z \sin \alpha)^2}{2}$$



N [kN]

$$T = 0$$

$$M = 0$$