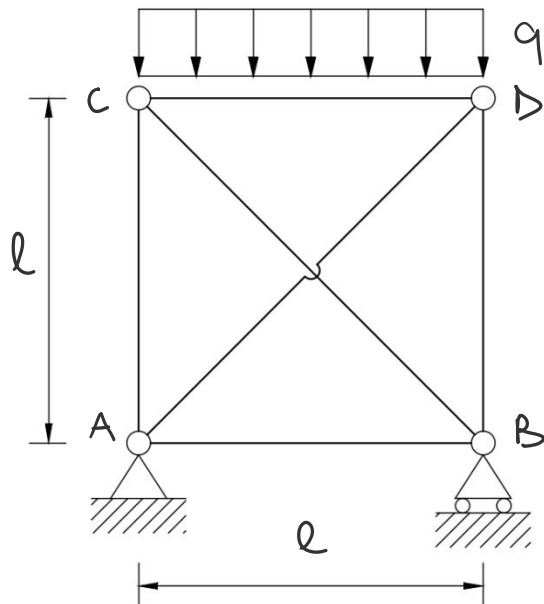
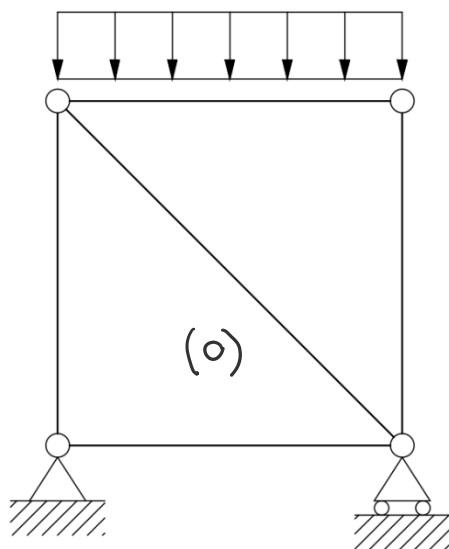


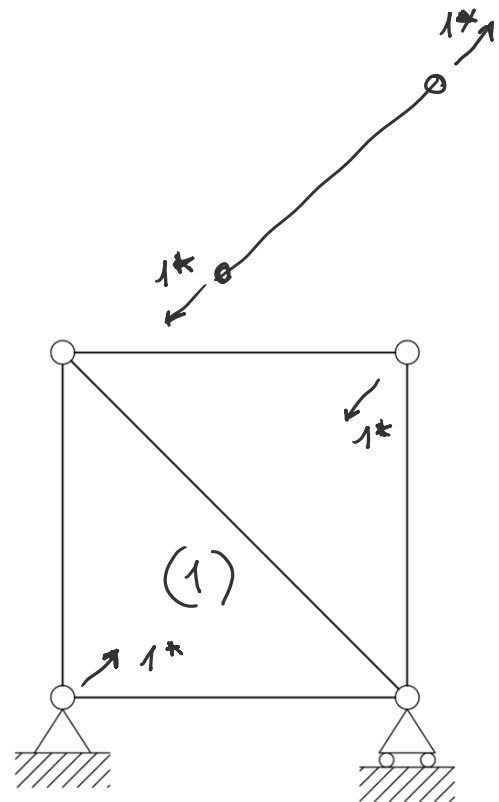


$$q = 1000 \text{ N/m}$$

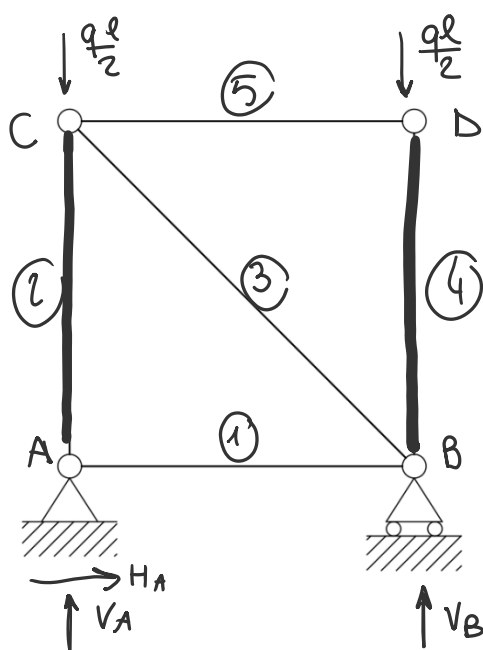
$$l = 4 \text{ m}$$



+ X



1) SISTEMA (0) - STATICO PRIMARIO



$$\Rightarrow H_A = 0$$

$$\uparrow V_A = V_B = \frac{ql}{2}$$

Nodo A

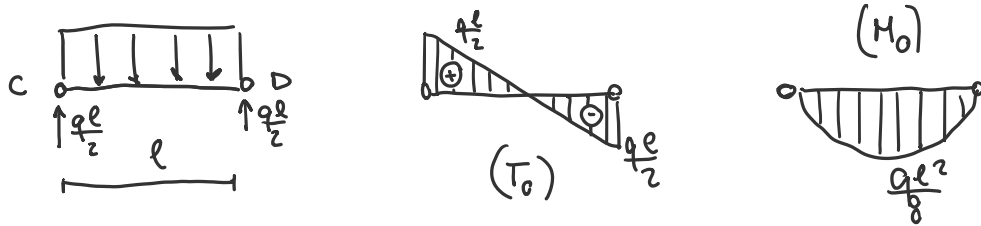
$$\begin{aligned} \uparrow N_1 & \quad \rightarrow N_2 = 0 \\ \rightarrow N_2 & \quad \uparrow N_1 = -\frac{ql}{2} \\ \uparrow \frac{ql}{2} & \end{aligned}$$

Nodo B

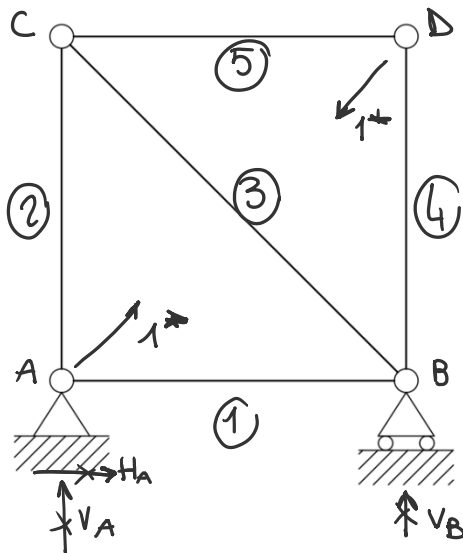
$$\begin{aligned} N_3 & \quad N_4 \\ \rightarrow N_3 & = 0 \\ \uparrow N_4 & = \frac{ql}{2} \\ \uparrow \frac{ql}{2} & \end{aligned}$$

#	N
1	0
2	$-\frac{ql}{2}$
3	0
4	$\frac{ql}{2}$
5	0

STATO SECONDARIO



SISTEMA (1)



$$\rightarrow H_A = 0$$

$$A \nearrow V_B = 0$$

$$\uparrow V_A = 0$$

Nodo A

$$\begin{aligned} \uparrow N_2 & \rightarrow N_1 = -\frac{\sqrt{2}}{2} \\ \rightarrow N_1 & \rightarrow N_2 = -\frac{\sqrt{2}}{2} \end{aligned}$$

Nodo D

$$\begin{aligned} \rightarrow N_5 & = -\frac{\sqrt{2}}{2} \\ \uparrow N_4 & = -\frac{\sqrt{2}}{2} \end{aligned}$$

Nodo B

$$\begin{aligned} \rightarrow -N_3 \cdot \frac{\sqrt{2}}{2} - N_1 & = 0 \\ N_3 & = 1 \end{aligned}$$

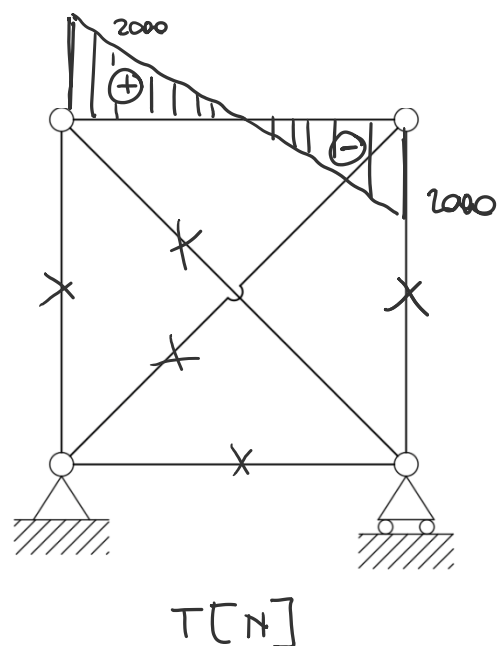
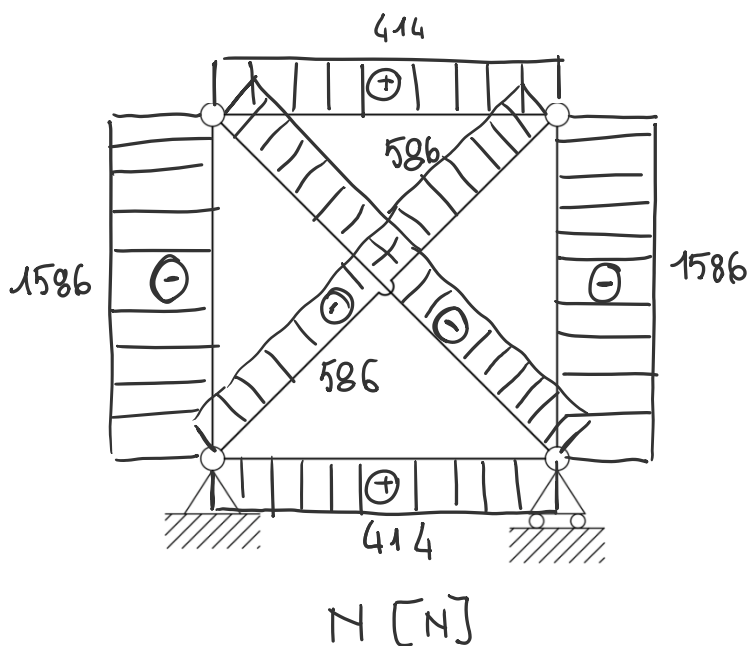
#	N
1	$-\sqrt{2}/2$
2	$-\sqrt{2}/2$
3	1
4	$-\sqrt{2}/2$
5	$-\sqrt{2}/2$

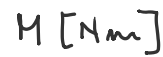
$$M_{10} = \frac{2}{EA} \int_0^l \left(-\frac{ql}{2}\right) \cdot \left(-\frac{\sqrt{2}}{2}\right) dz = \frac{\sqrt{2}ql^2}{2EA}$$

$$M_{11} = \frac{4}{EA} \int_0^l \left(\frac{\sqrt{2}}{2}\right)^2 dz + \frac{1}{EA} \int_0^{\sqrt{2}l} 1 dz = \frac{2l}{EA} + \frac{\sqrt{2}l}{EA}$$

$$L_{ve} = L_v: (-1) \frac{\sqrt{2}l}{EA} = M_{10} + x M_{11}$$

$$x = -M_{10} / \left(M_{11} + \frac{\sqrt{2}l}{EA}\right) = -585,8 \text{ N}$$





$$L_{ve} = M_{10} + X M_{11} + X^2 \cdot f = 0$$

In seguito al difetto di montaggio, cambiare solo i diagrammi dello sfondo normale

