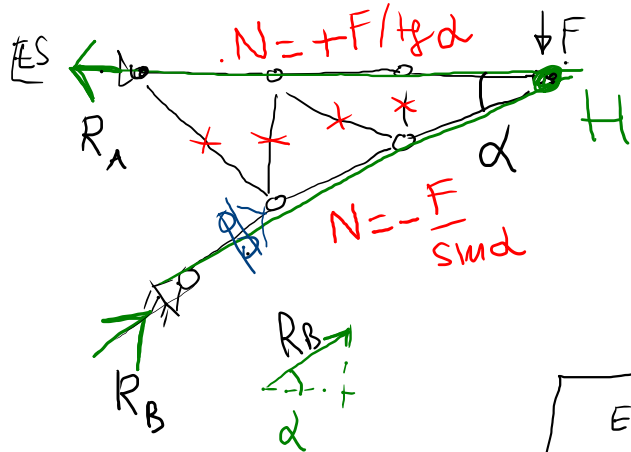


18/11/22



$$\begin{aligned} \rightarrow: -R_A + R_B \cos \alpha &= 0 \\ \uparrow: -F + R_B \sin \alpha &= 0 \end{aligned}$$

$$R_B = \frac{F}{\sin \alpha}; \quad R_A = R_B \cos \alpha = \frac{F}{\tan \alpha}$$

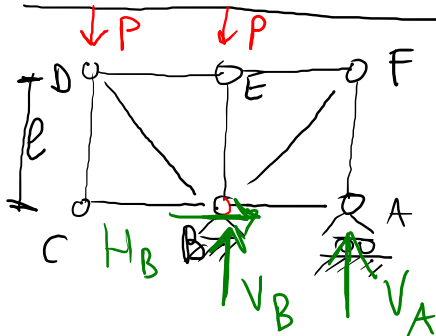
EQUIL. ESTERNO

$$\rightarrow: H_B = 0$$

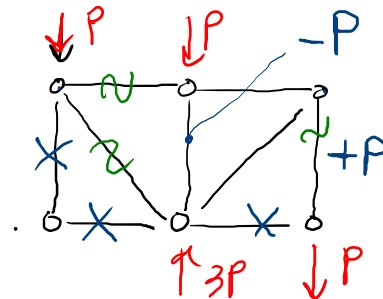
$$\uparrow: V_A + V_B - 2P = 0$$

$$\uparrow(B): P\ell + V_A \ell = 0$$

$$\begin{cases} H_B = 0 \\ V_A = -P \\ V_B = 3P \end{cases}$$



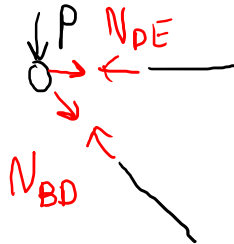
METODO
DEL NODI



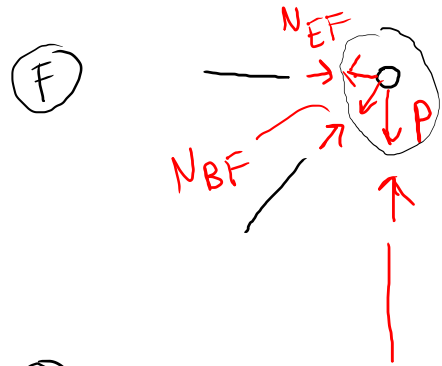
$$N_{BD} = -\sqrt{2}P$$

$$N_{DE} = +P$$

(D)

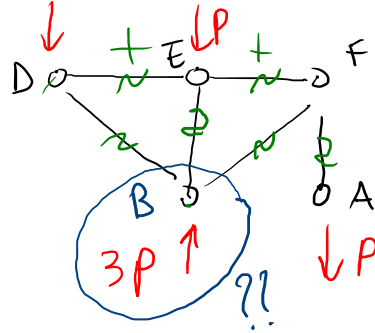
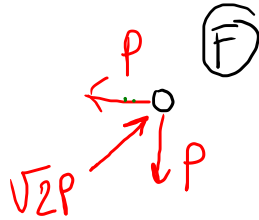
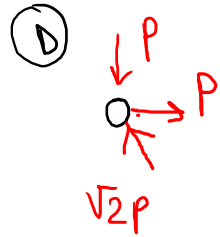


$$\begin{aligned} \rightarrow: N_{DE} + N_{BD} \frac{1}{\sqrt{2}} &= 0 \\ \uparrow: -P - N_{BD} \frac{1}{\sqrt{2}} &= 0 \end{aligned}$$



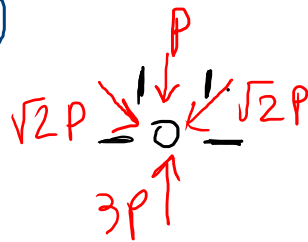
$$\begin{cases} -N_{EF} - N_{BF} \frac{1}{\sqrt{2}} = 0 \\ -P - N_{BF} \frac{1}{\sqrt{2}} = 0 \end{cases}$$

$$\begin{cases} N_{EF} = -N_{BF} \frac{1}{\sqrt{2}} = +P \\ N_{BF} = -P\sqrt{2} \end{cases}$$



ASTA	N
AF	+P
AB	0
BC	0
CD	0
BD	$-\sqrt{2}P$
DE	+P
BE	-P
EF	+P
BF	$-\sqrt{2}P$

VERIFICA EQ. NODO (B)

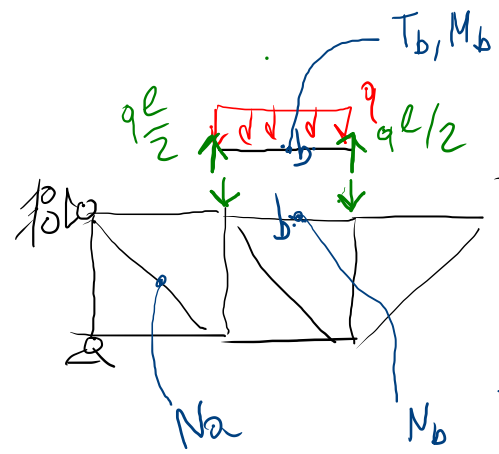
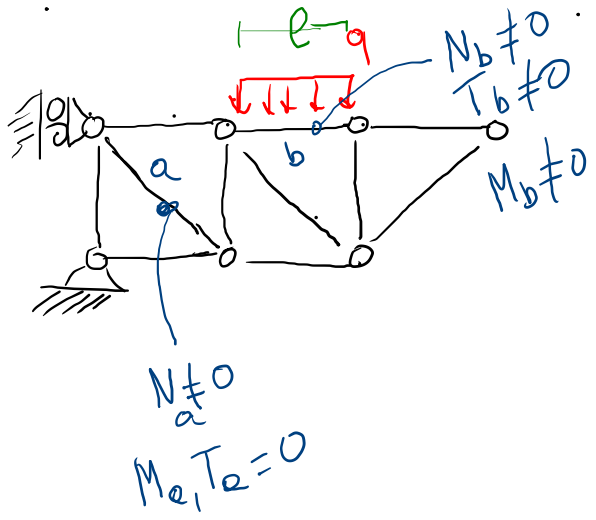


$$\rightarrow : +P - P = 0$$

$$\uparrow : +3P - P - P - P = 0$$

OK

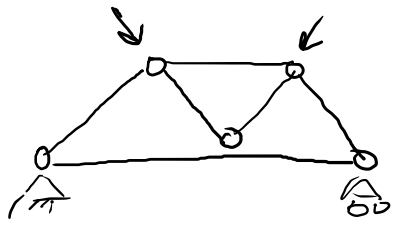
9 A STE SONO "CARICATE" ?



I SCHEMA

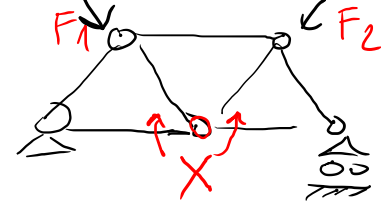
II SCHEMA
(CARICHI NODALI)

CON LA SOVRAPPOSIZIONE DEGLI EFFETTI SOMMO LE "AZIONI" OTTENUTE DA (I) A QUELLE CALCOlate IN (II)



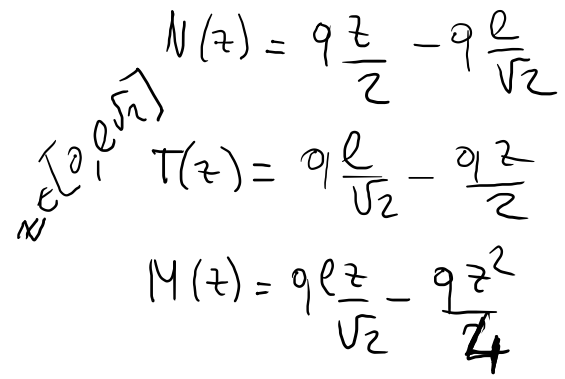
STR IPERST.

↳ STR ISOST. (STR. PRINCIPALE)



X: INCOGNITA IPERST.

GLI EFFETTI TENSIONALI DOVUTI A X SONO PRECISAMENTE INFERIORI A QUELLI INDOTTI DAI CARICHI NODALI

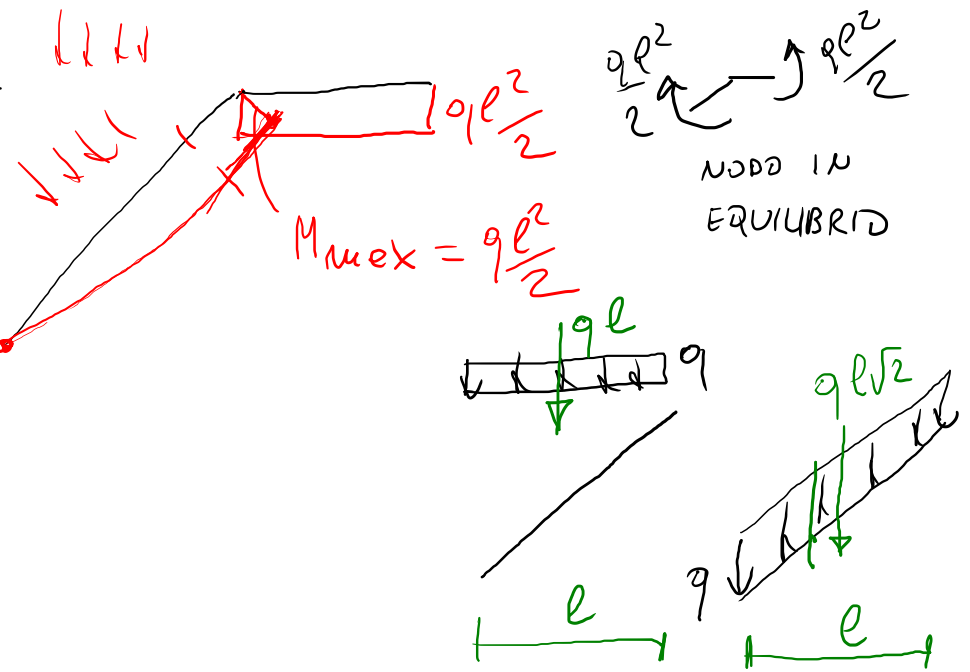
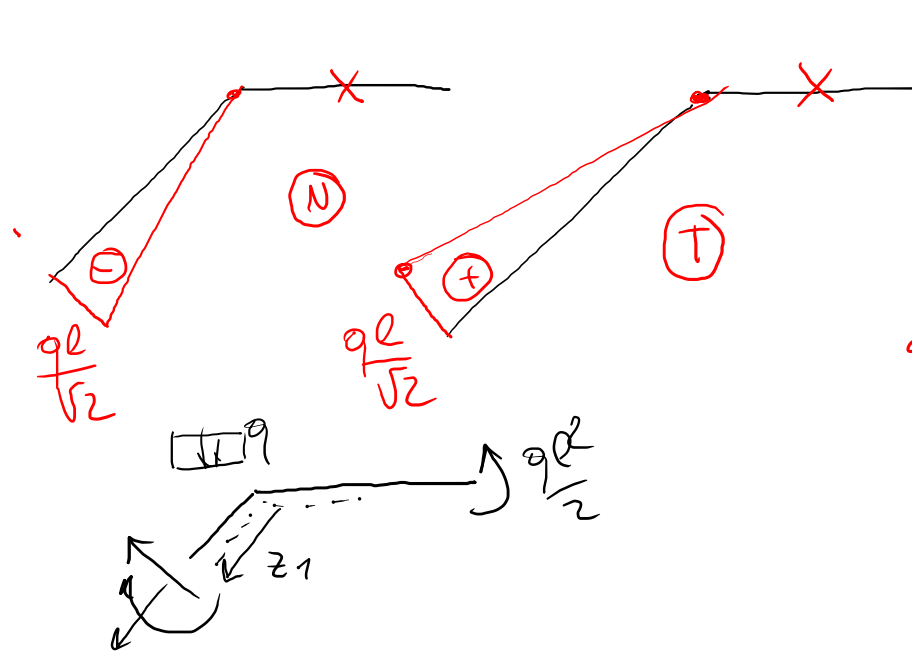


$$\left(\frac{g}{k}\right)^+ : -9l \frac{z}{\sqrt{2}} + \frac{9z}{\sqrt{2}} \frac{z}{\sqrt{2}} \frac{1}{2} + M(z) = 0$$

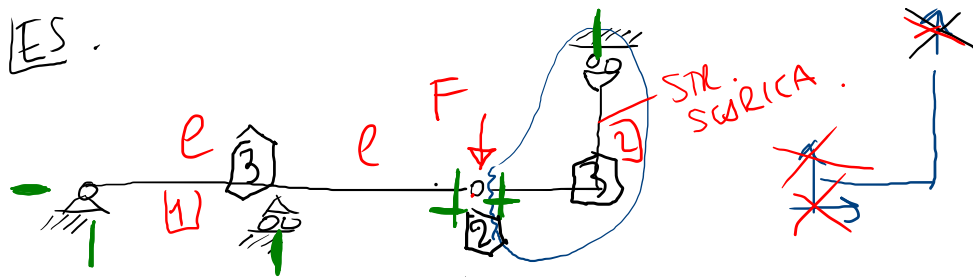
$$N(0) = -9\ell/\sqrt{2}, \quad N(\ell\sqrt{2}) = 0$$

$$T(0) = +\frac{9\ell}{\sqrt{2}} \quad ; \quad T(\ell\sqrt{2}) = 0$$

$$M(0) = 0 \quad ; \quad M(\ell\sqrt{2}) = +\frac{q\ell^2}{2}$$



ES.



8 INCOGNITE
8 EQUAZ. (3 + 3 + 2) ← CERNIERA

