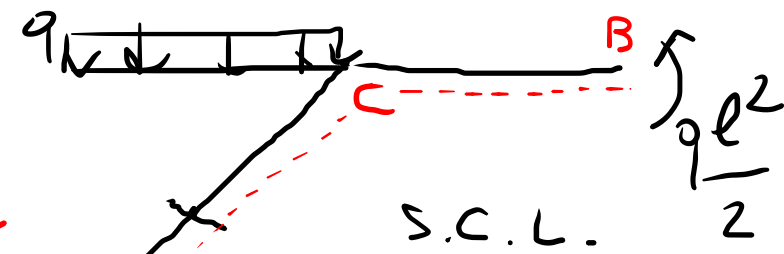
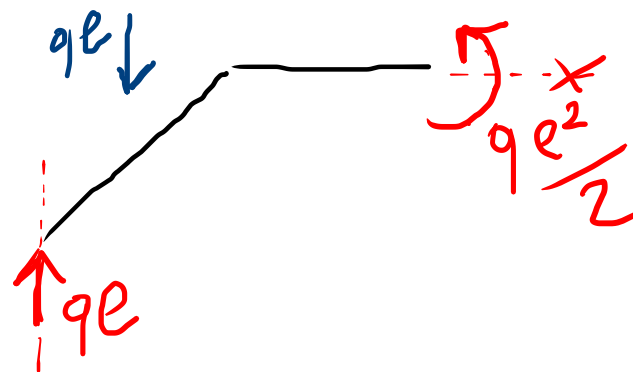
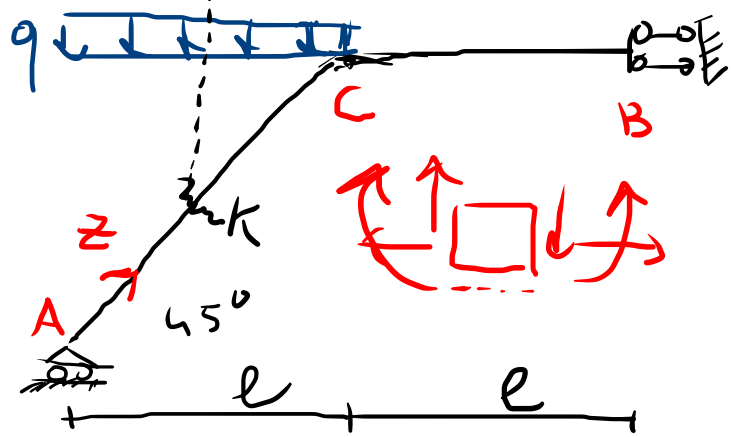


ES: FALDA INCLINATA



$$M(z) = ql \frac{z}{\sqrt{2}} - \frac{qz^2}{4}$$

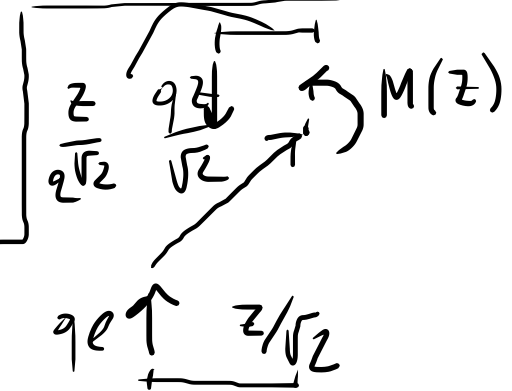
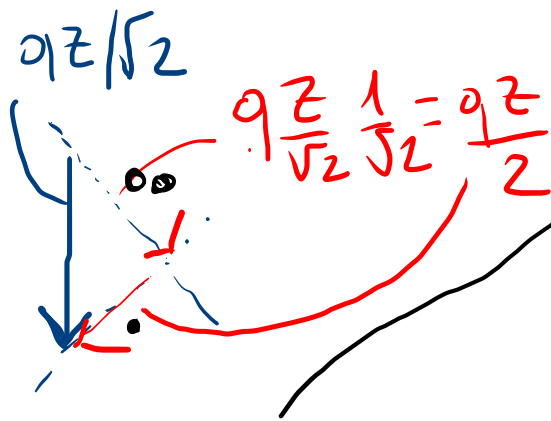
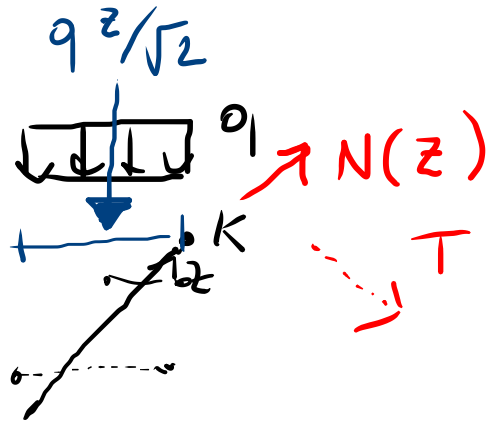
$$N(z) = q \frac{z}{2} - q \frac{l}{\sqrt{2}}$$

$$T(z) = q \frac{l}{\sqrt{2}} - q \frac{z}{2}$$

$$z \in [0, l\sqrt{2}]$$

$$\rightarrow : +q \frac{l}{\sqrt{2}} - q \frac{z}{2} + N(z) = 0$$

$$\downarrow : -q \frac{l}{\sqrt{2}} + \frac{qz}{2} + T(z) = 0$$

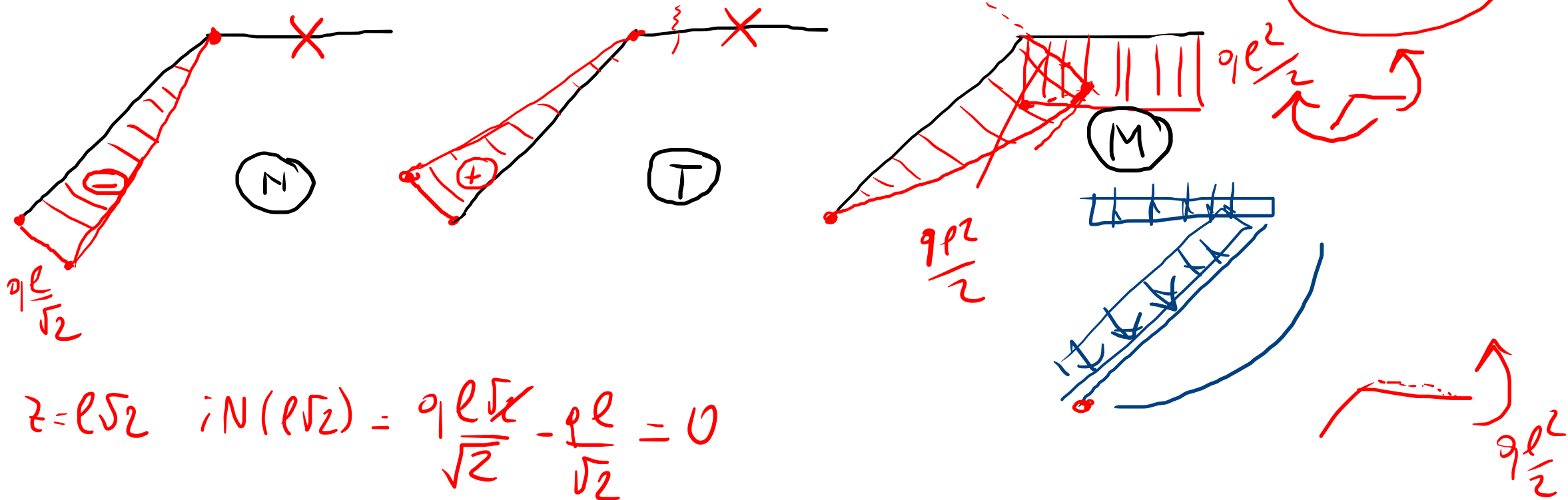


$$\curvearrow : -ql \frac{z}{\sqrt{2}} + \frac{qz}{\sqrt{2}} \cdot \frac{z}{2\sqrt{2}} + M(z) = 0$$



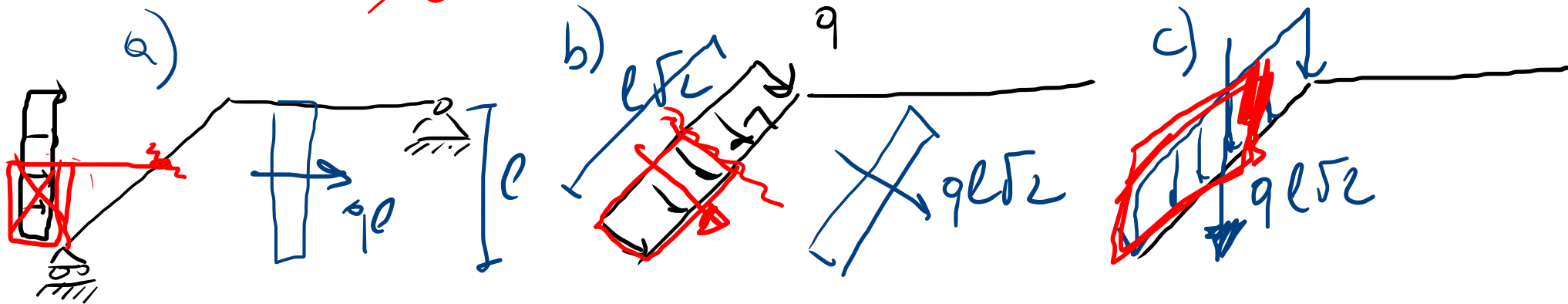
$$N(z) = q \frac{z}{2} - q \frac{l}{\sqrt{2}} \quad ; \quad T(z) = q \frac{l}{\sqrt{2}} - q \frac{z}{2} \quad ; \quad M(z) = q \frac{lz}{\sqrt{2}} - \frac{qz^2}{4}$$

$$\frac{dM}{dz} = T$$

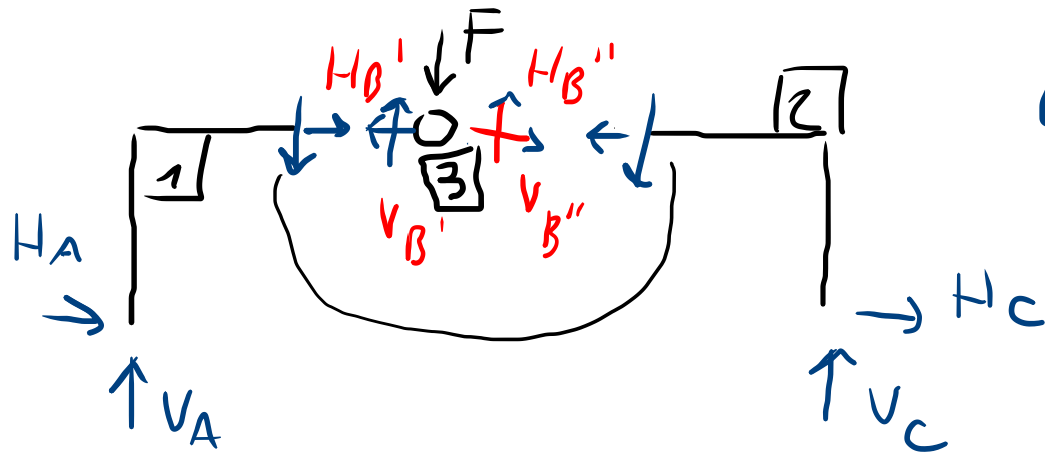
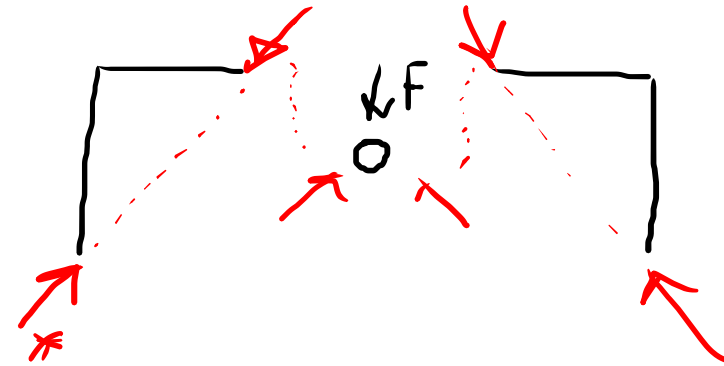
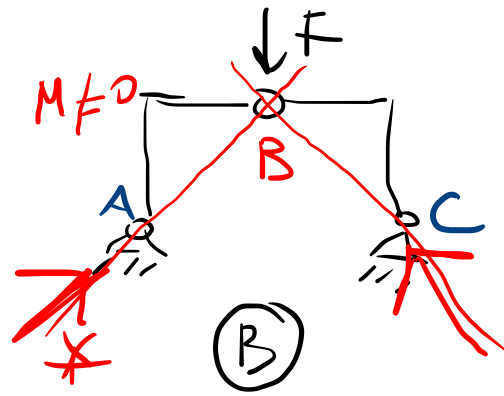
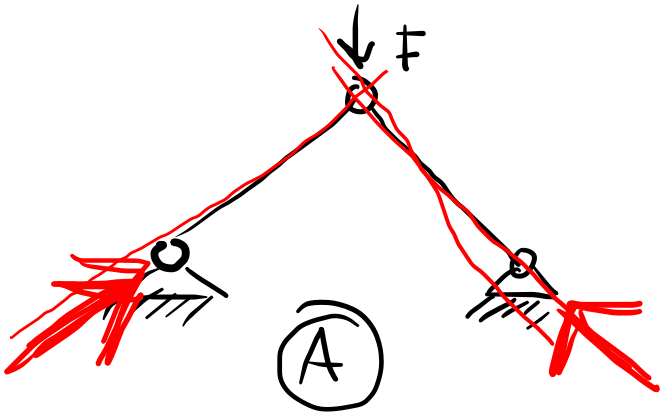


$$z = l\sqrt{2} \quad ; \quad N(l\sqrt{2}) = q \frac{l\sqrt{2}}{\sqrt{2}} - \frac{ql}{\sqrt{2}} = 0$$

$$M(l\sqrt{2}) = q \frac{l \cdot l\sqrt{2}}{\sqrt{2}} - \frac{q}{4} \frac{l^2 \cdot 2}{2} = ql^2 - \frac{ql^2}{2} = \frac{ql^2}{2}$$

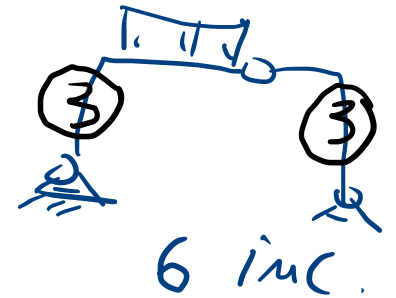


# STRUTTURE ARTICOLATE CON COLLEGAMENTO SULLA CERNIERA



4 REAZ ESTERNE  
4 REAZ INTERNE

8 INCIGNITE



3 EQ DI EQUILIBRIO

3 EQ DI " "

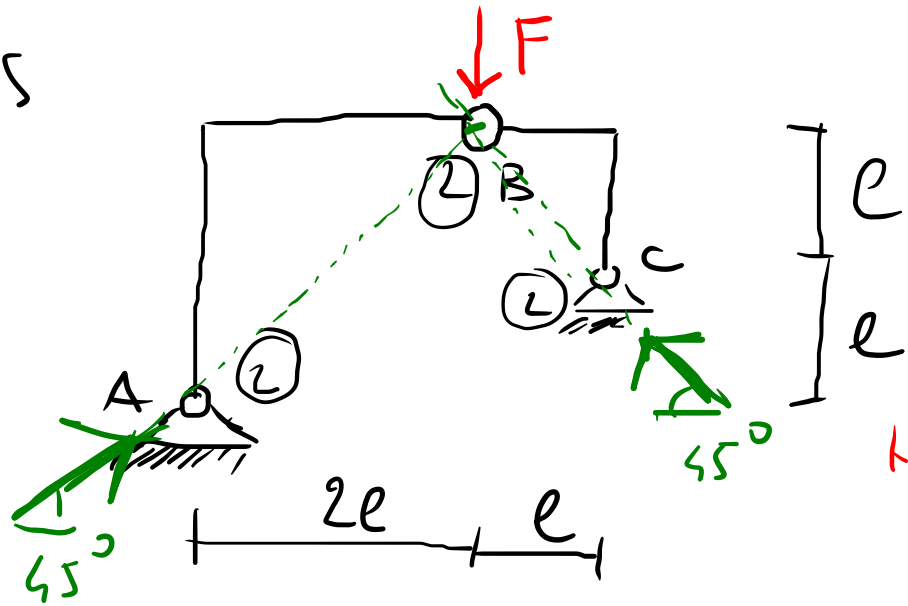
2 EQ DI " "

8 EQ.



[3] (CERNIERA UCRICATA) → EQ "BANALI" SE LA CERNIERA FOSSE SCORICA

ES



1) CALCOLO LE REAZI ESTERNE CON IL METODO DELL'EQ. AUSILIARIA

4 INCOGNITE

$$V_C = \frac{F}{2}, H_C = -\frac{F}{2}$$

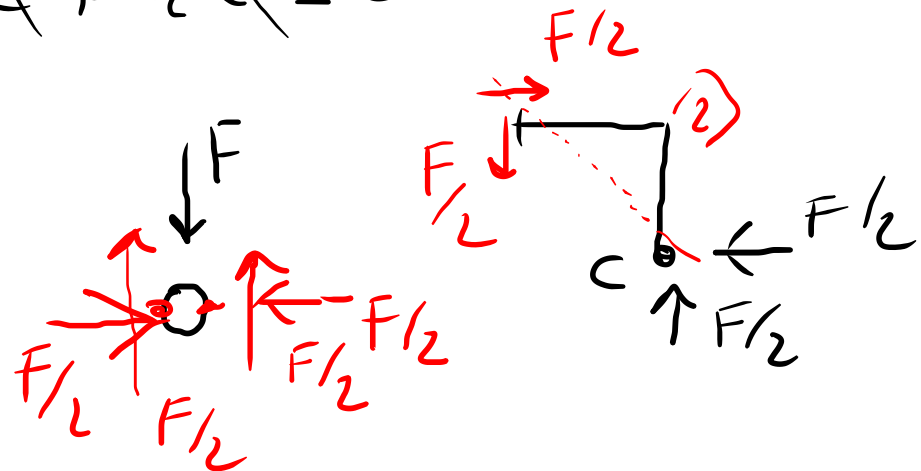
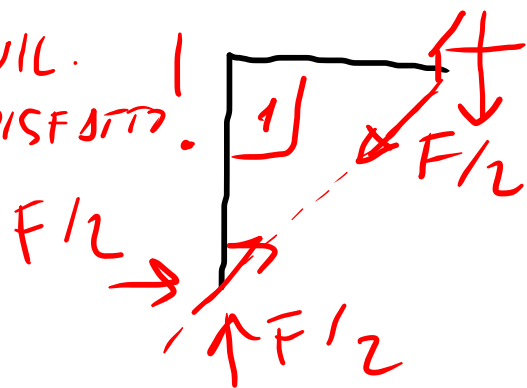
$$V_A = \frac{F}{2}, H_A = \frac{F}{2}$$

$$g = 6; v = 4 + 2 = 6$$

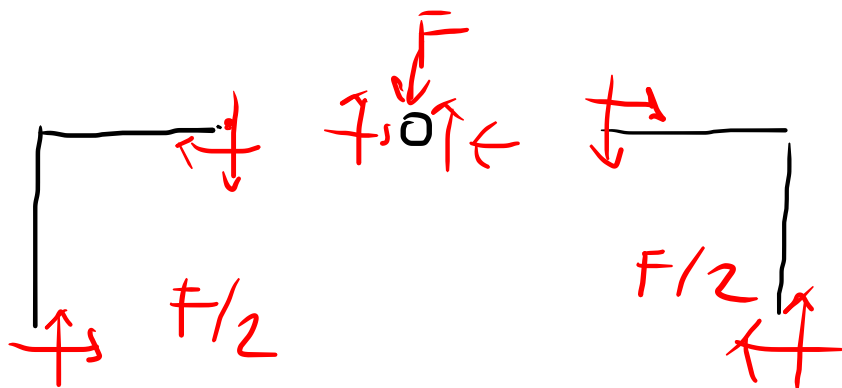
$$\begin{cases} \rightarrow : H_A + H_C = 0 \\ \uparrow : V_A - F + V_C = 0 \\ +\curvearrowleft_A : -F \cdot 2l + V_C \cdot 3l - H_C \cdot l = 0 \\ +\curvearrowleft_B : V_C \cdot l + H_C \cdot l = 0 \end{cases}$$

2) EQ. CORPO [2] e EQ. CERNIERA.

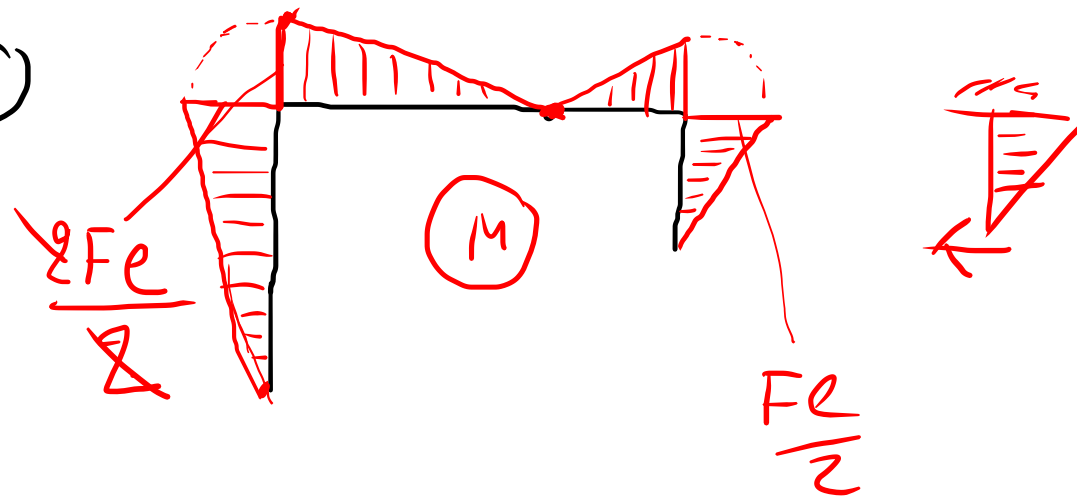
EQUIL. SODDISFATTO!



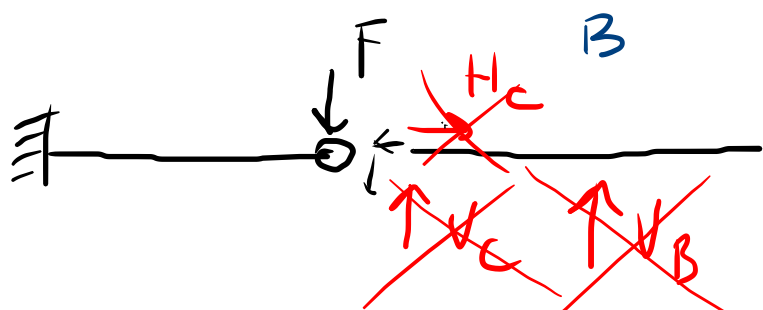
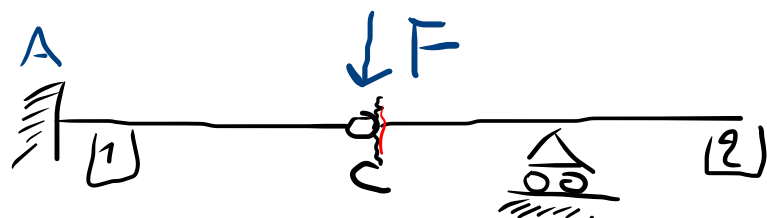
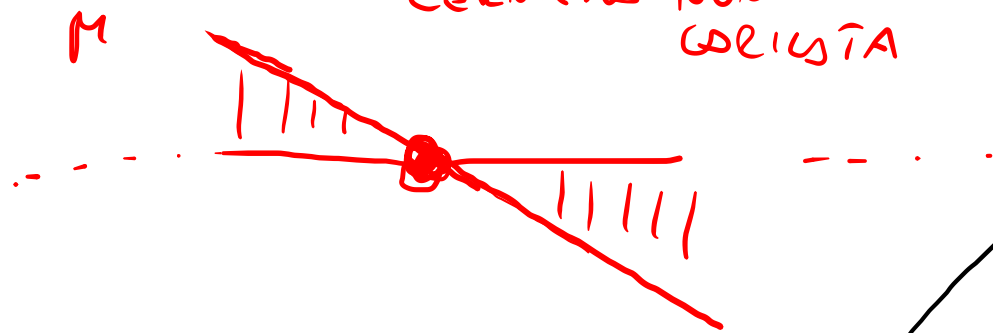
STRUTTO LE 2 EQ DI EQUIL DELLA CERNIERA



(M)

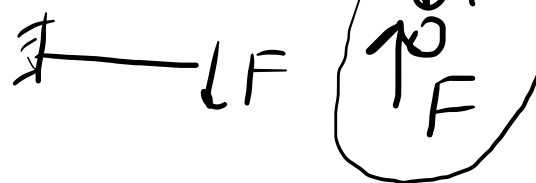


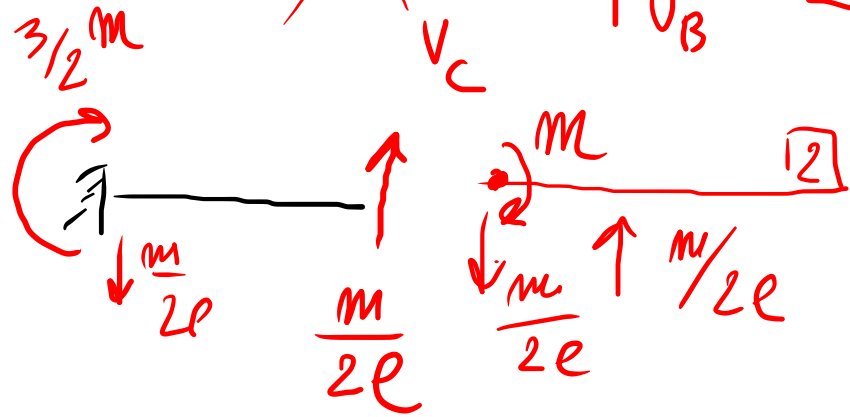
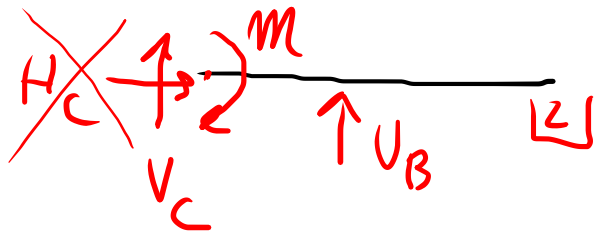
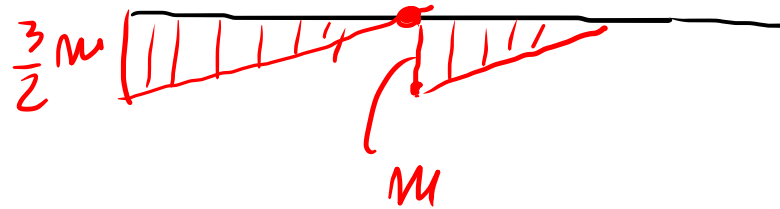
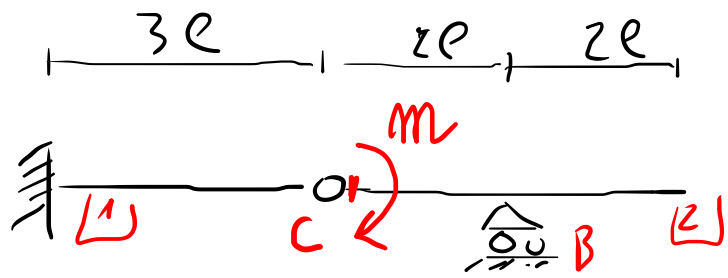
CERNIERA NON  
CORRUSTA



NO CARICHI  
NO REAZIONE

3 EQ. DI EQUIL. CON  $\emptyset$  CARICHI  
SIST. ~~OMOGENEO~~ → SOL. NULLA!





S.C.L.



$$M(z=0) = +M$$