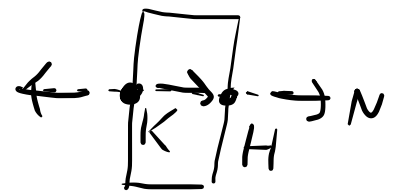
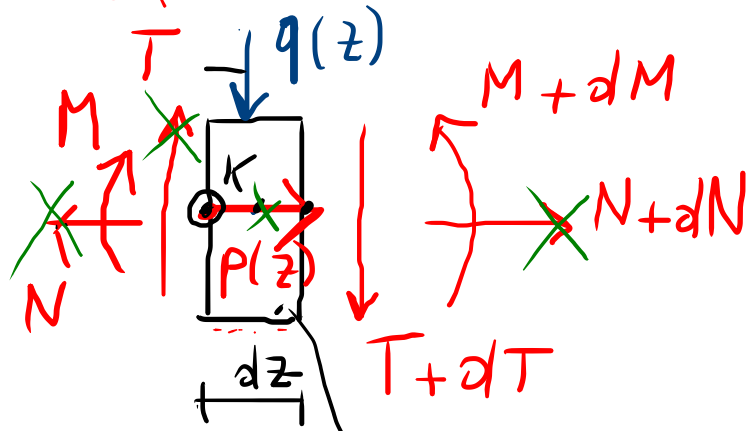
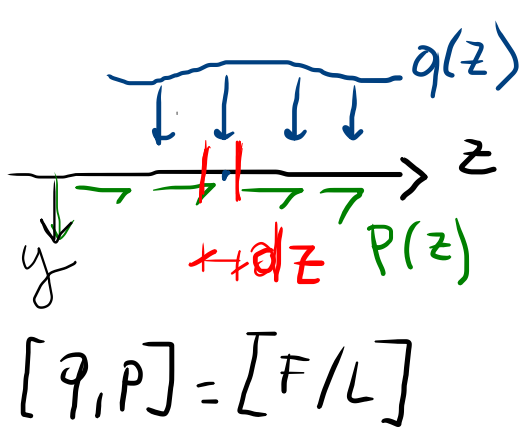
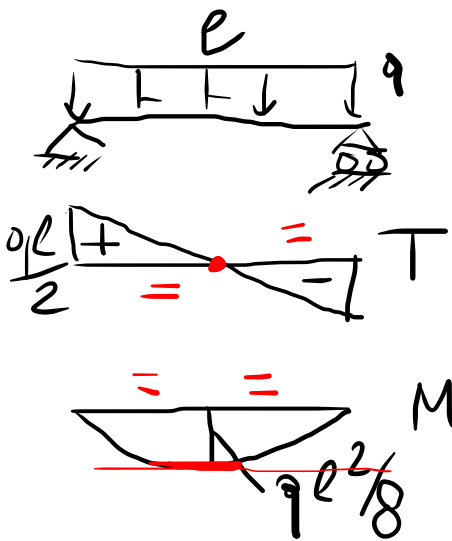


CARATTERISTICHE DELLA SOLLECITAZIONE, MTN

EQUAZ. INDEFINITE DI EQUILIBRIO



CONCIO INFINITESIMO
(STUDIO L'EQUILIBRIO)

\rightarrow : ~~$-N + p dz + N + dN = 0$~~ ; ~~$-p dz = dN$~~

$$\boxed{\frac{dN}{dz} = -p}$$

ORDINE

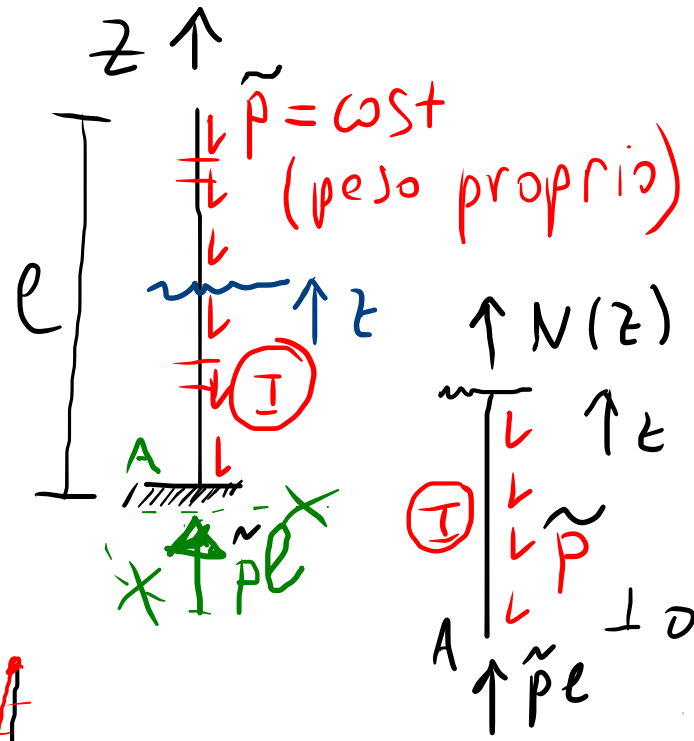
\uparrow : ~~$+T - q dz - T - dT = 0$~~ ; $\boxed{\frac{dT}{dz} = -q}$

\curvearrowright : ~~$-M - q dz \cdot \frac{dz}{2} - (T+dT) dz + M + dM = 0$~~ ; ~~$-q \frac{(dz)^2}{2} - T dz - dT dz + dM$~~

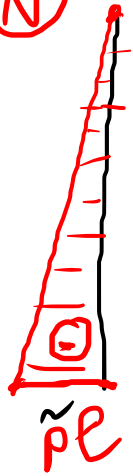
~~$-T dz \neq dM = 0$~~ ; $\boxed{\frac{dM}{dz} = T}$

INFINITI. DI ORD. SUP. = 0
TRASCURSARE

[ES



(N)



$$N'(z) = +\tilde{p}$$

CALCOLA $N(z)$, DISEGNA IL DIAGRAMMA

E VERIFICA CHE $N'(z) = -p(z)$ (*)

$$+\uparrow : +\tilde{p}l - \tilde{p}z + N(z) = 0$$

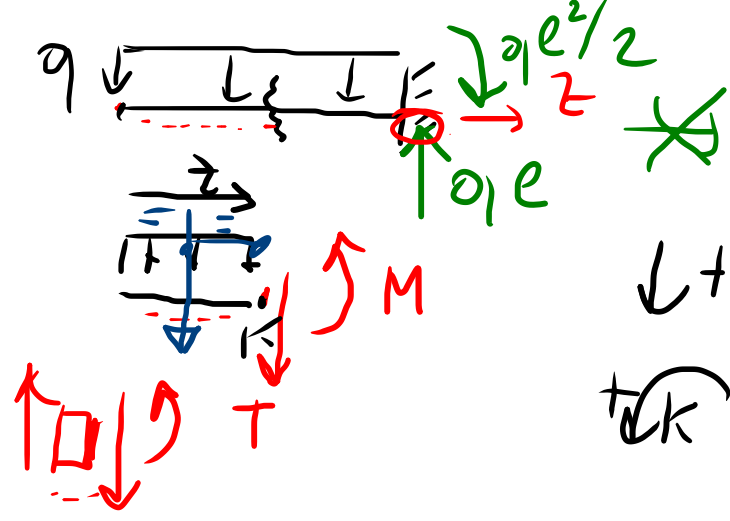
$$N(z) = -\tilde{p}l + \tilde{p}z = -\tilde{p}(l-z) > 0 < 0$$

COMPRESSIONE

ATT! Nello sviluppo della I eq. indefinita \tilde{p} è positivo SE CONGRUE a z !

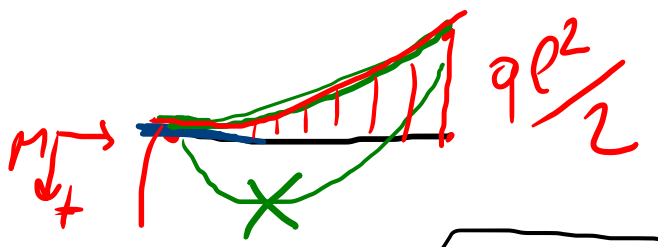
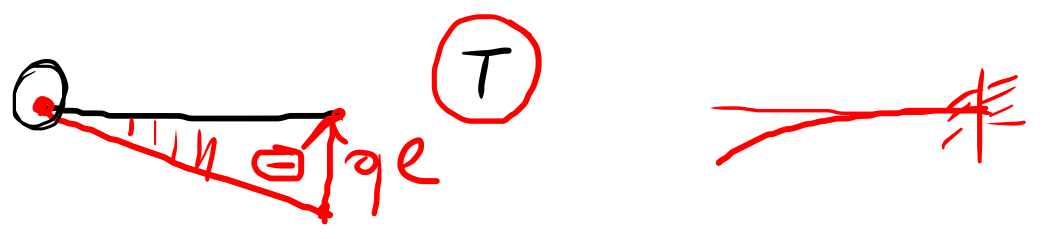
$\tilde{p} < 0$ e CORRISP. a $-p$. QUINDI l'EQ. (*) È SODDISFATTA.

ES $\overbrace{\hspace{2cm}}^e$ $q > 0$ 1) $M(z), T(z)$, 2) VER. $T'(z) = -q$; $M'(z) = T$

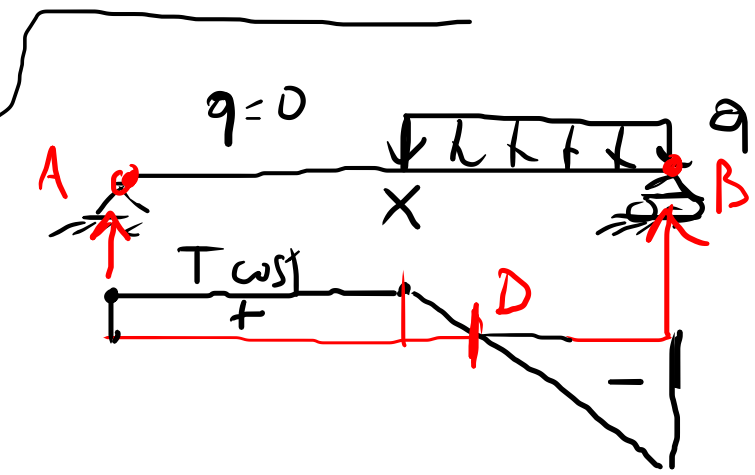


↓↑ : $qz + T = 0$; $T = -qz$

↺↻ : $qz \cdot \frac{z}{2} + M = 0$; $M = -q \frac{z^2}{2}$

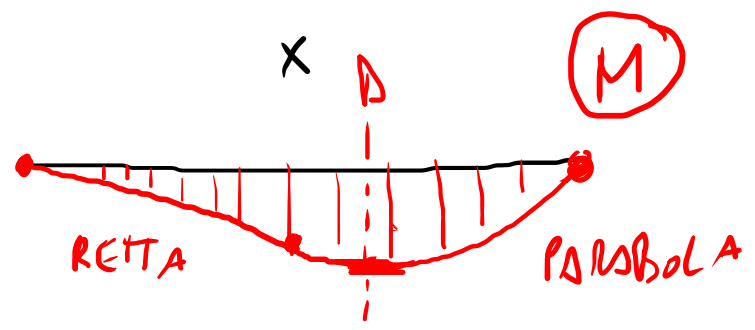


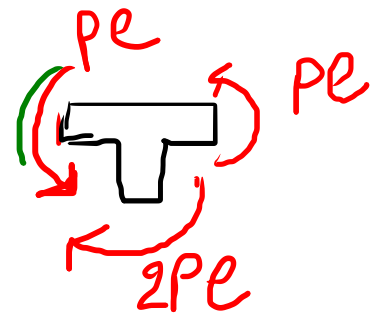
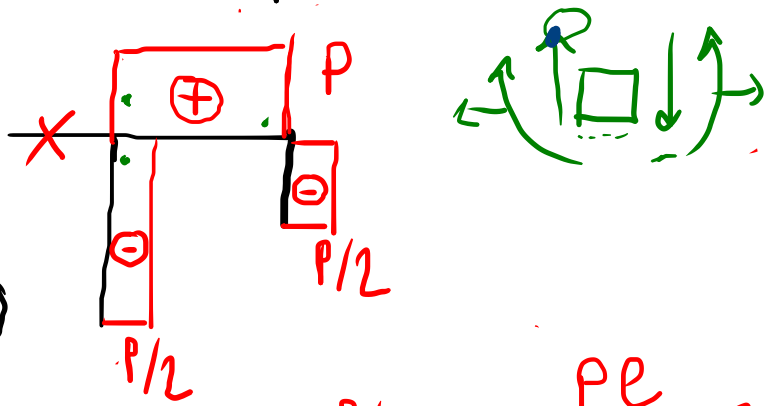
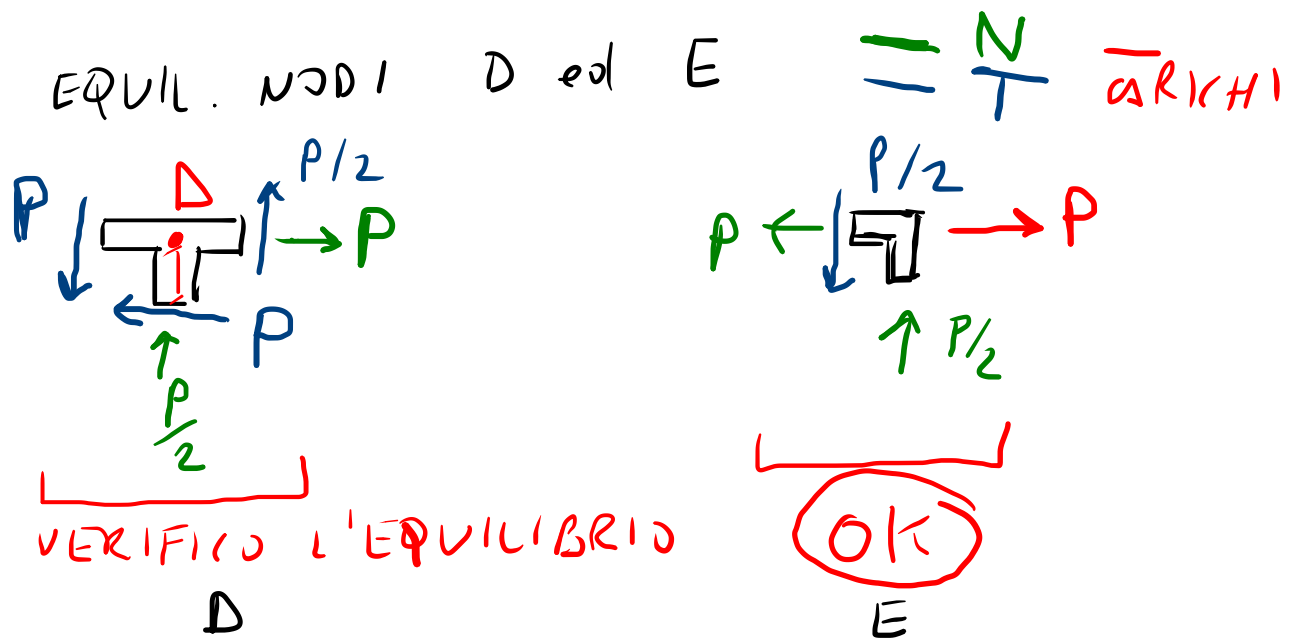
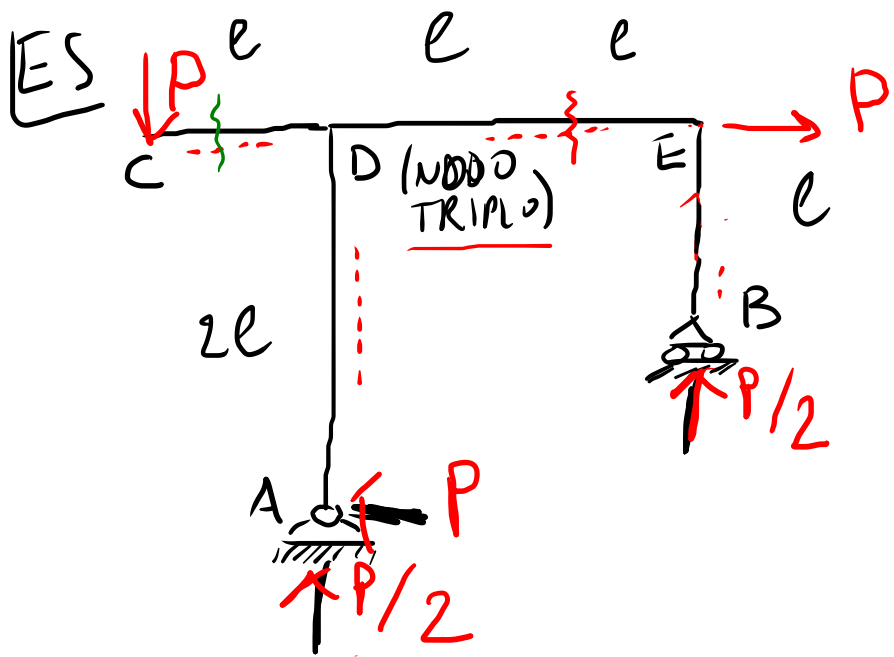
tg out



~~$T' = -q$~~
 ~~$M' = T$~~

$T' = -q$ (OK)
 $M' = -2q \frac{z}{2} = -qz$ $\sim T(z)!!$ (OK)





VERIFICO L'EQUIL.

OK

