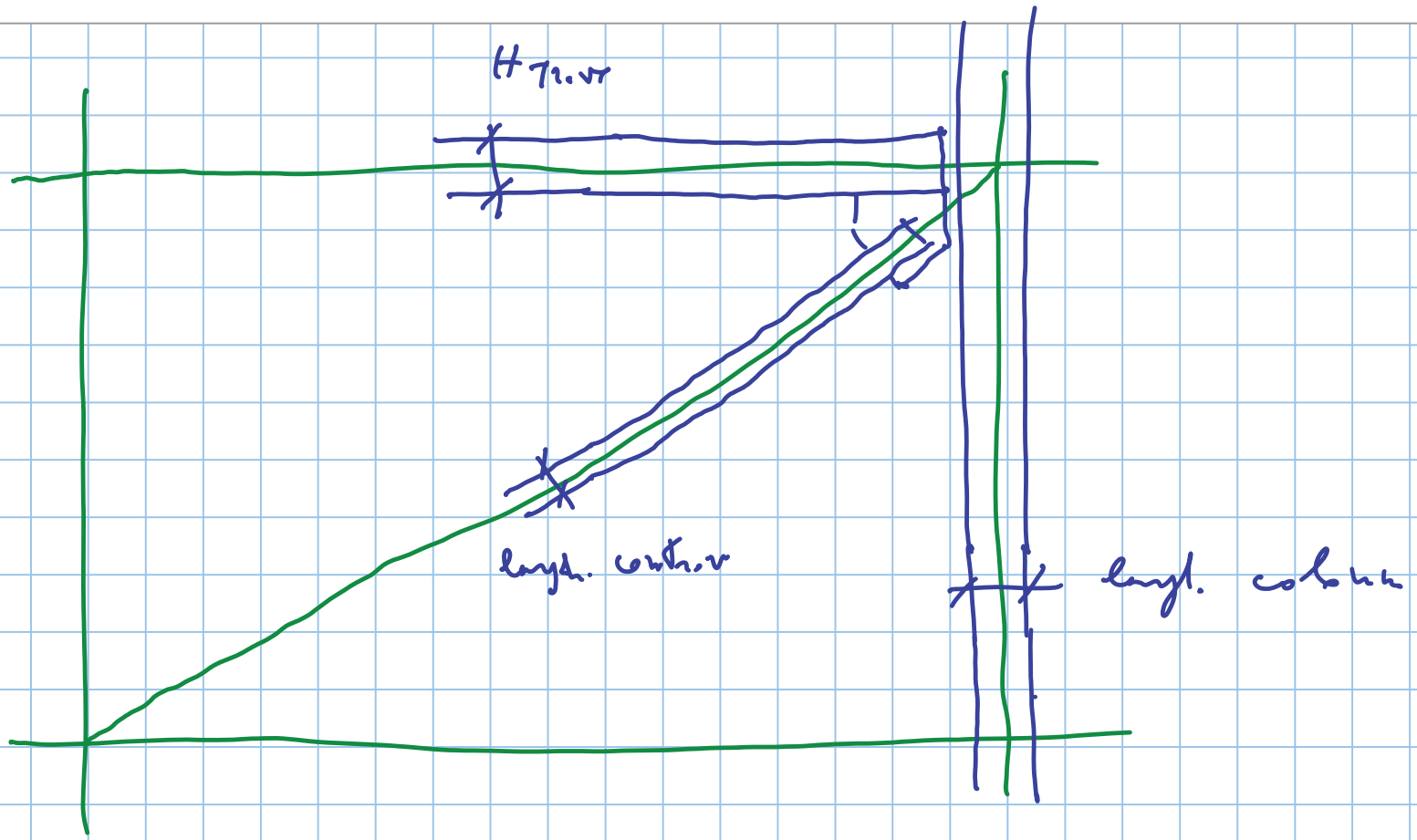
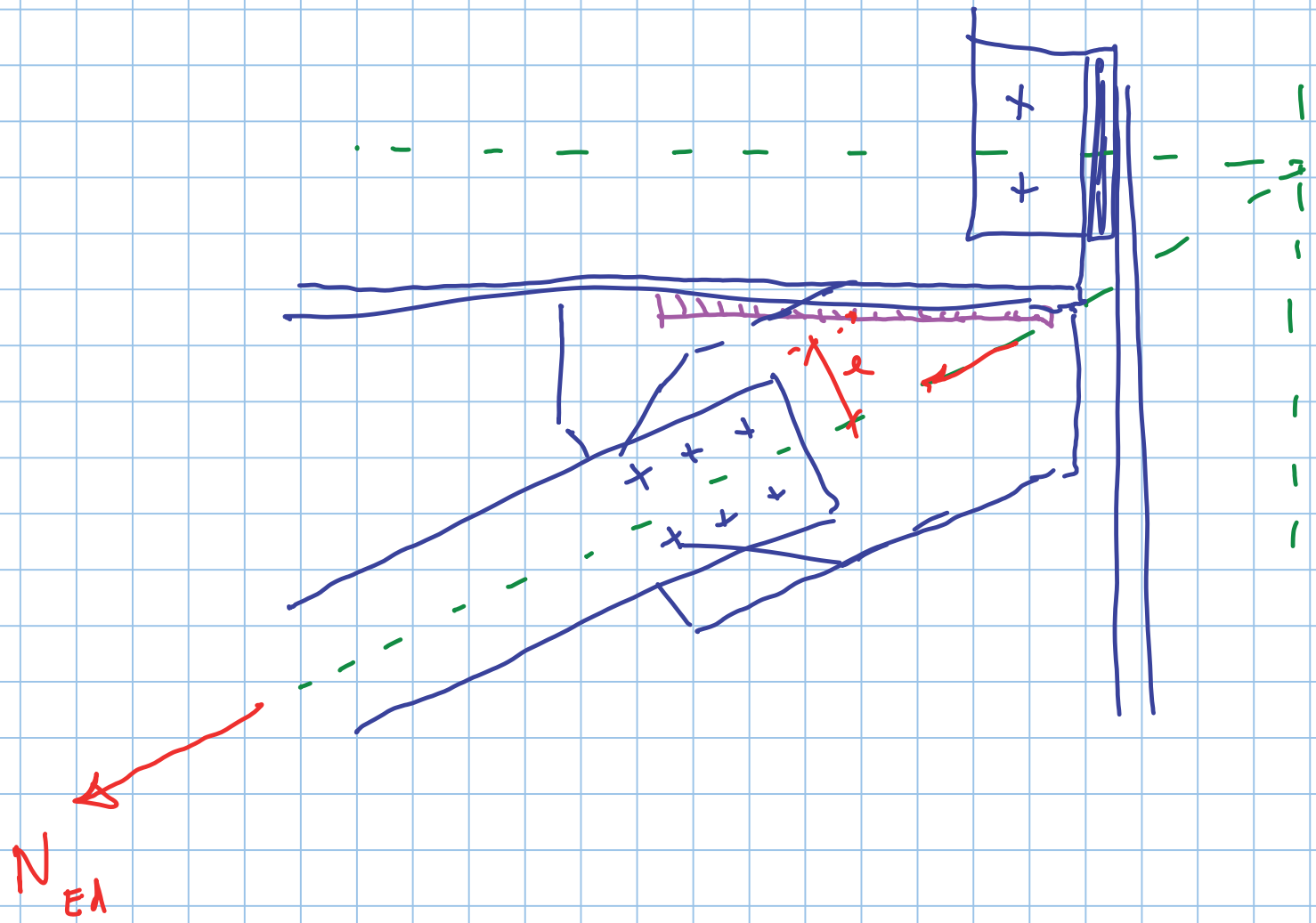
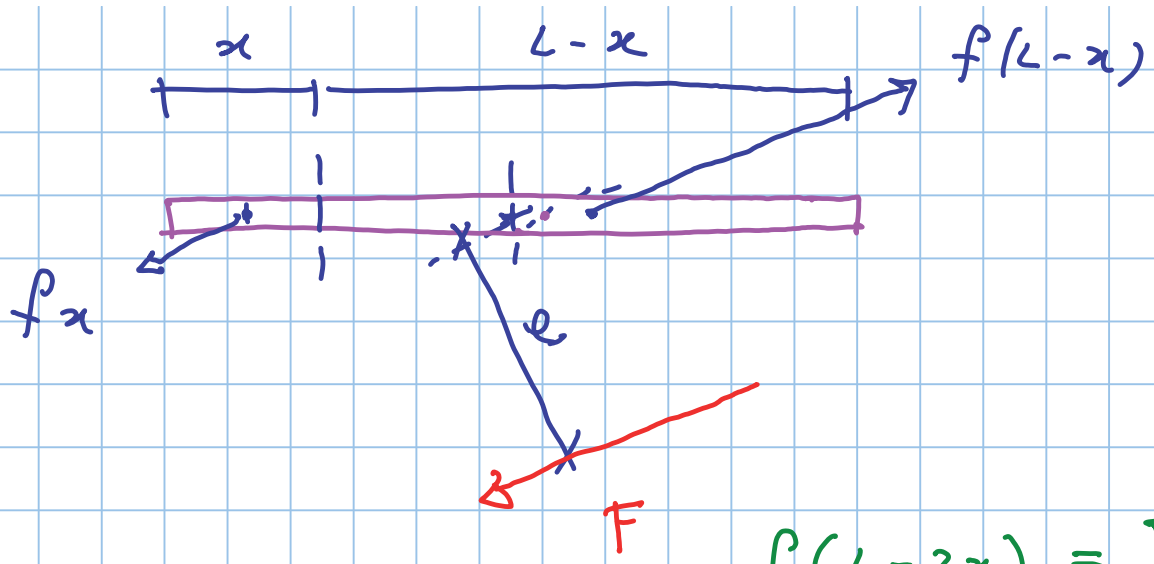
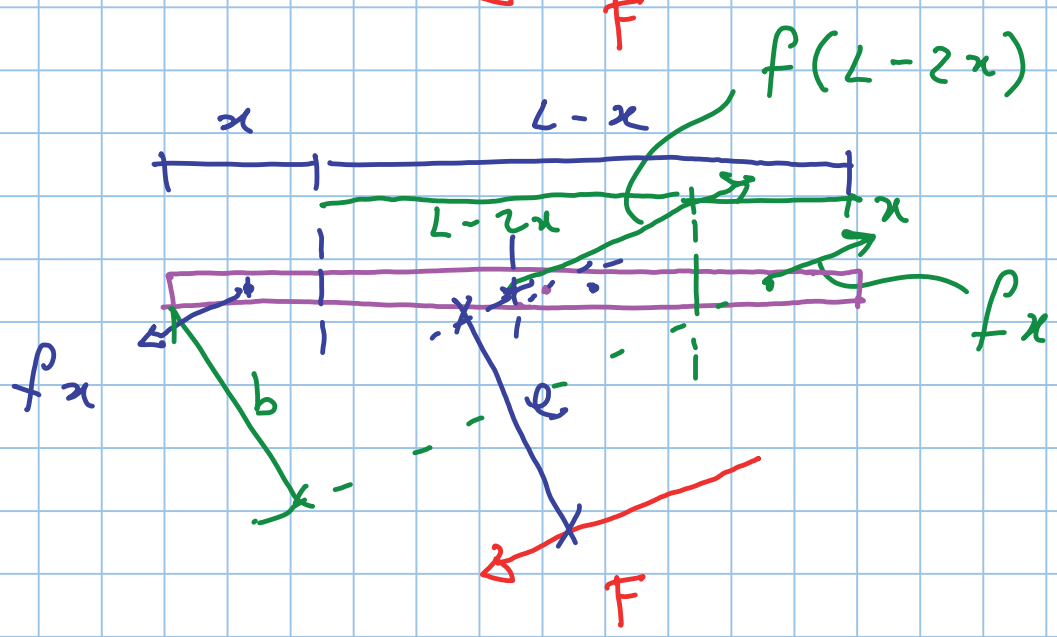
Titolo nota 09/01/2018



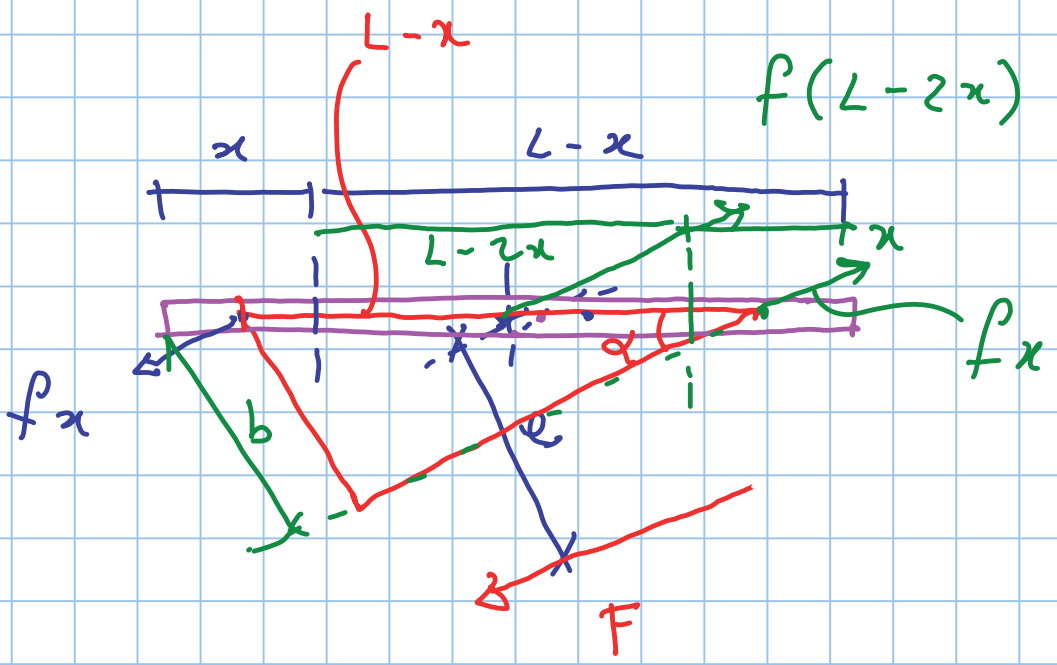
vista laterale


e
N_{Ed}





$$fx\,b = F\,e$$



$$f(L-2x) = F$$

$$f x\, b = F e$$

$$b = (L-x)\sin\alpha$$

$$f = \frac{F}{L-2x}$$

$$f(L-2x) = F$$

$$f x (L-x)\sin\alpha = F e$$

$$\frac{F}{L-2x}\, x(L-x)\sin\alpha = F e$$

$$x(L-x)\sin\alpha = e(L-2x)$$

$$x(L-x)\sin\alpha = e(L-2x)$$

$$xL\sin\alpha - x^2\sin\alpha - eL + 2ex = 0$$

$$-\sin\alpha\, x^2 + (L\sin\alpha + 2e)x - eL = 0$$

$$\sin\alpha\, x^2 - (L\sin\alpha + 2e)x + eL = 0$$

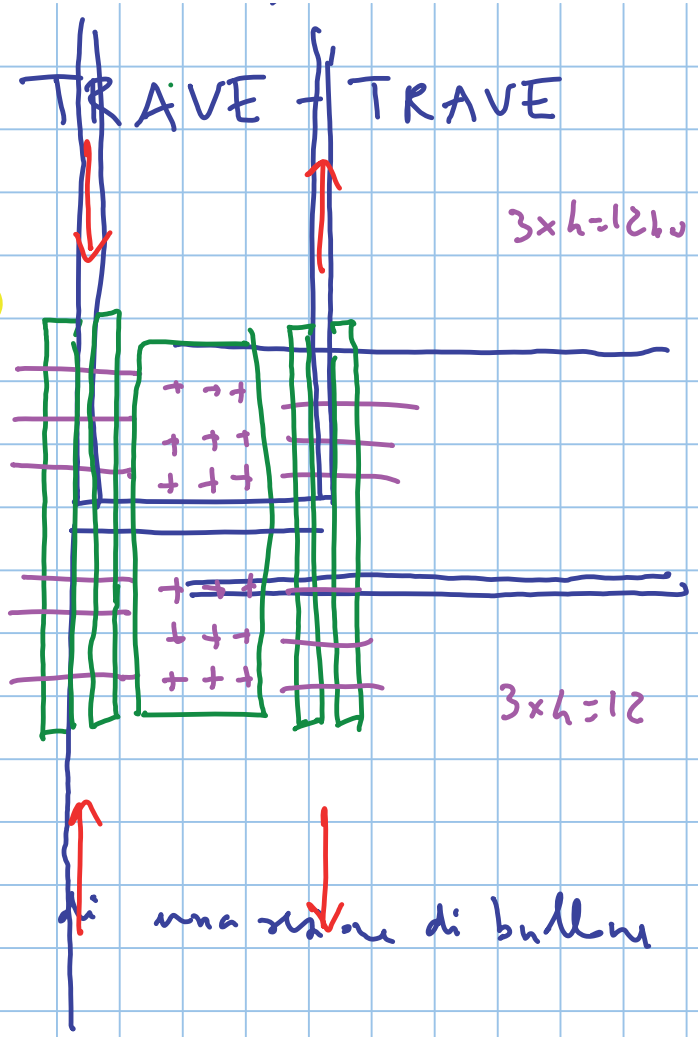
ricavo x

$$f_{vwd} = \frac{f_u/\sqrt{3}}{\beta_w \gamma_{M2}}$$

F agisce in un tratto $L-2x$

questo tratto può portare un $F_{Rd} = a(L-2x) f_{vwd}$

TRAVE – TRAVE in prossimità



3×h=12h

h = 12 in.

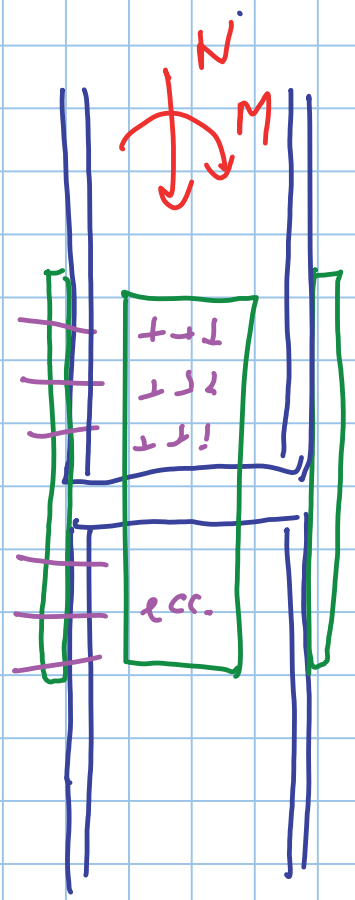
M/(h-t_f)

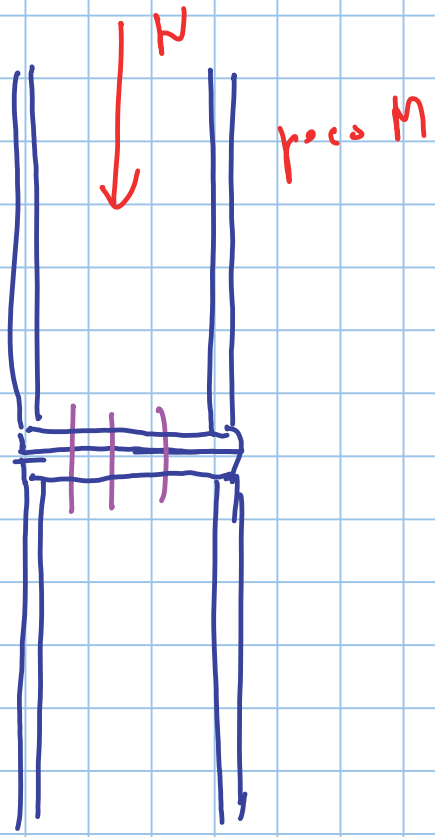
3×4=12

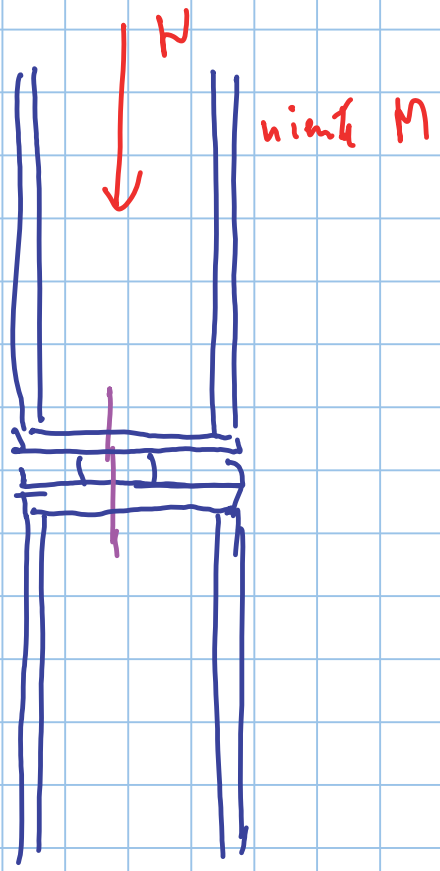
3×4=12

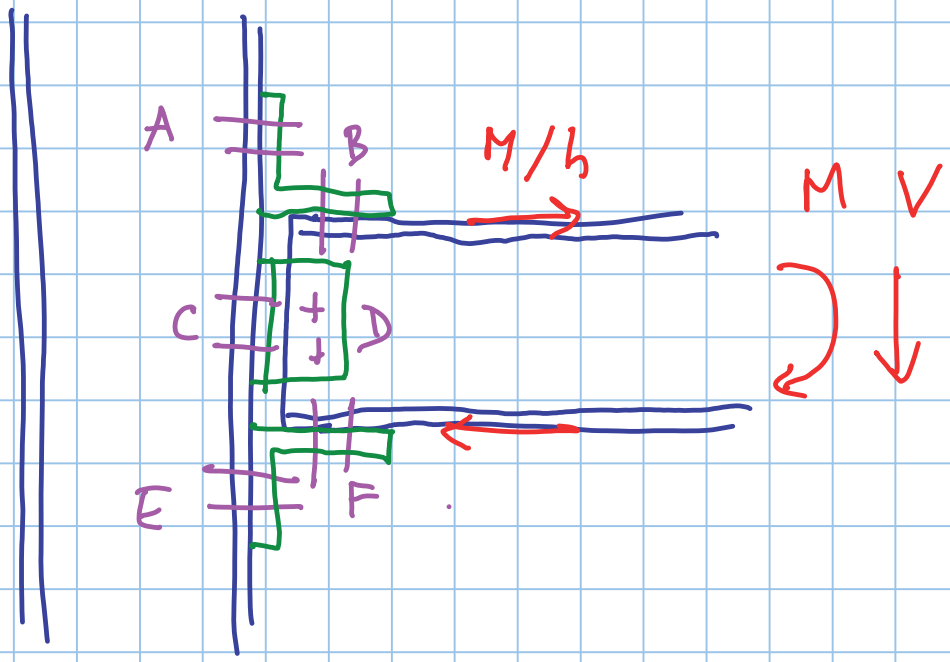
F_{VIRA} di una rotazione di bullone

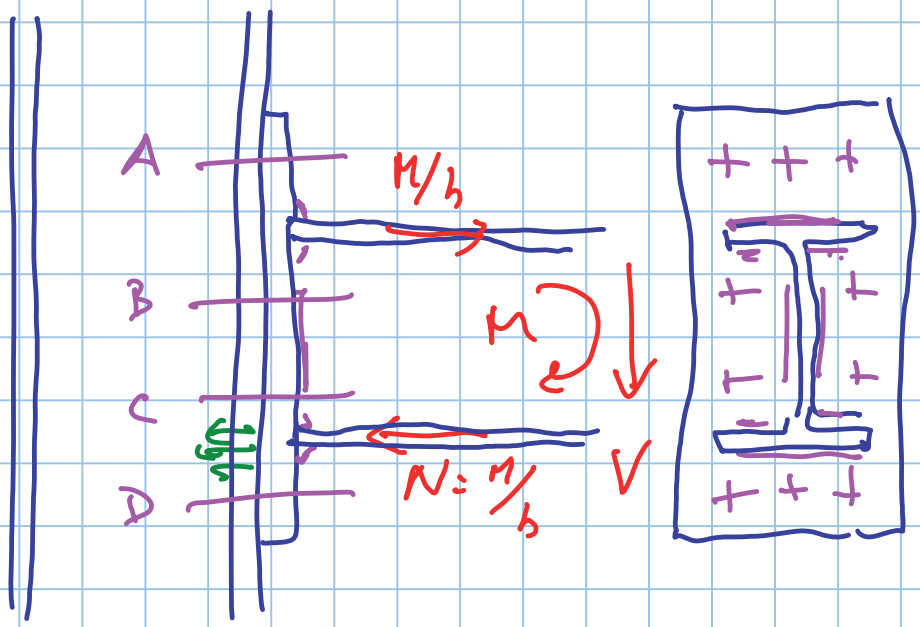
Σ


N
M
ecc.

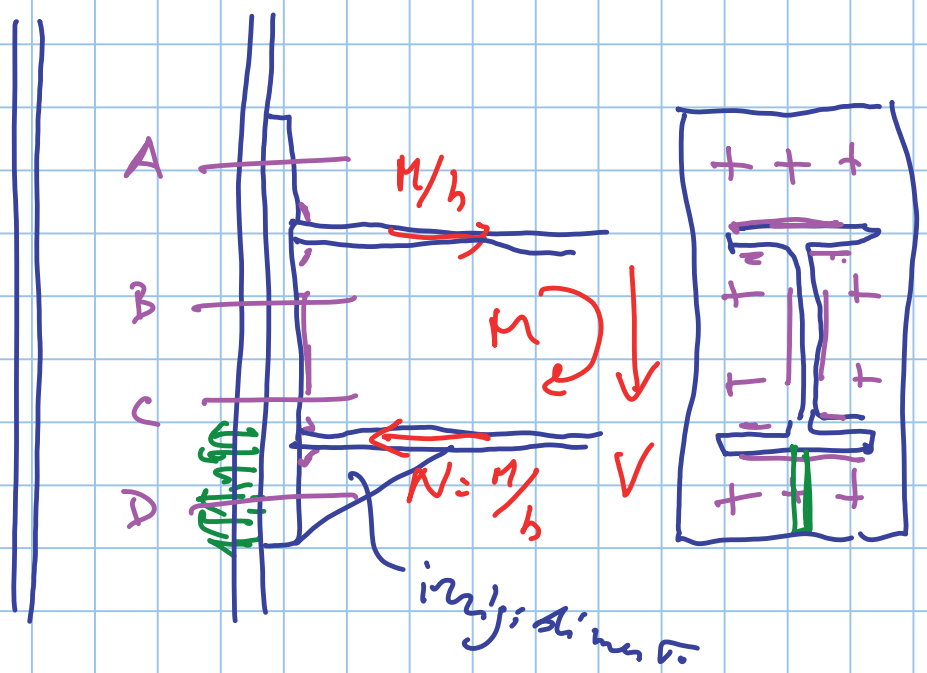

N
poco M


N
molto M

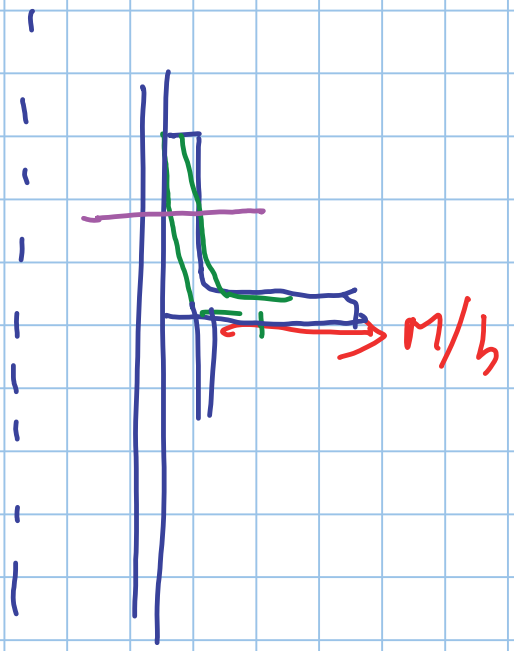




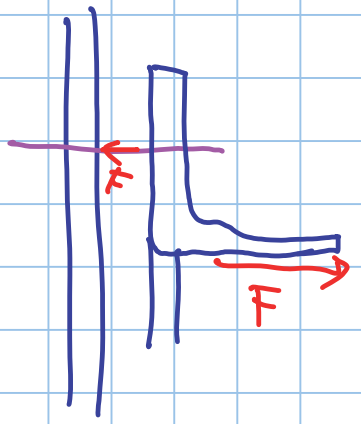
COLLEGAMENTO FLANGIATO

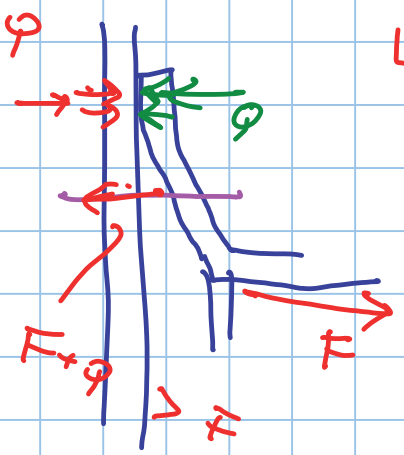


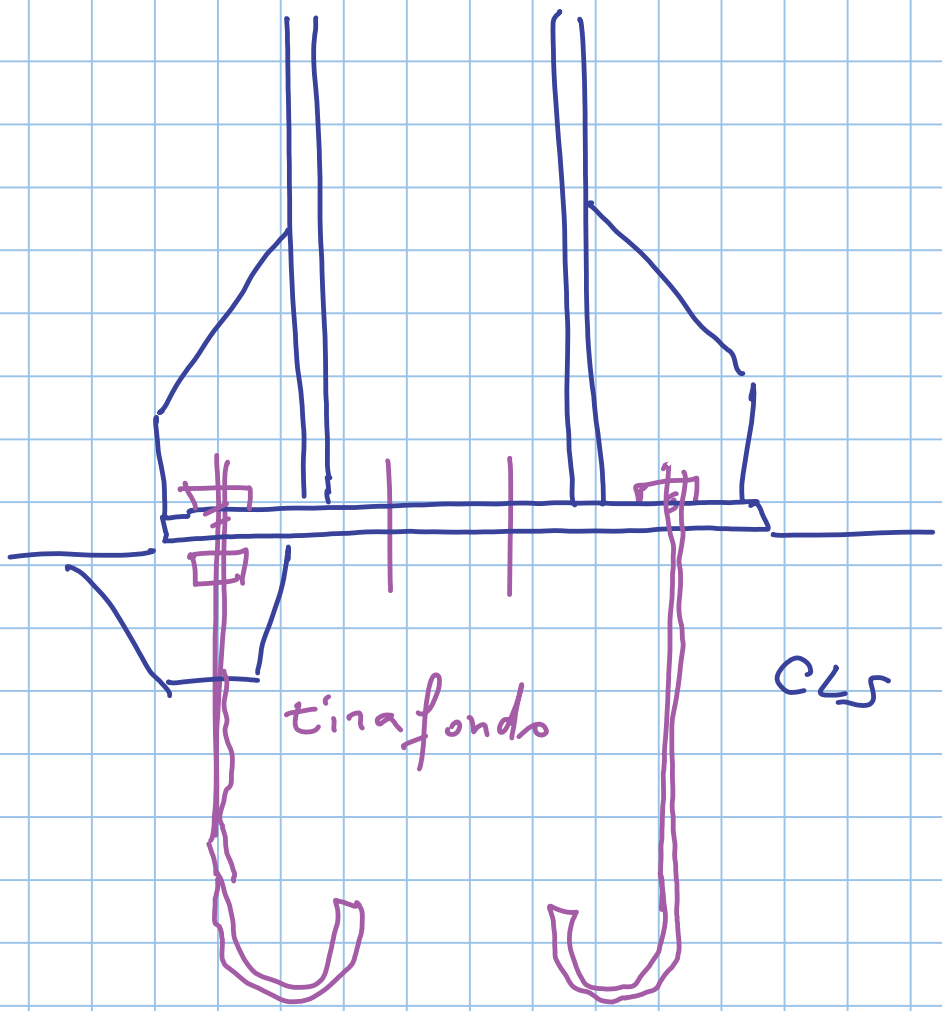
COLLEGAMENTO
FLANGIATO

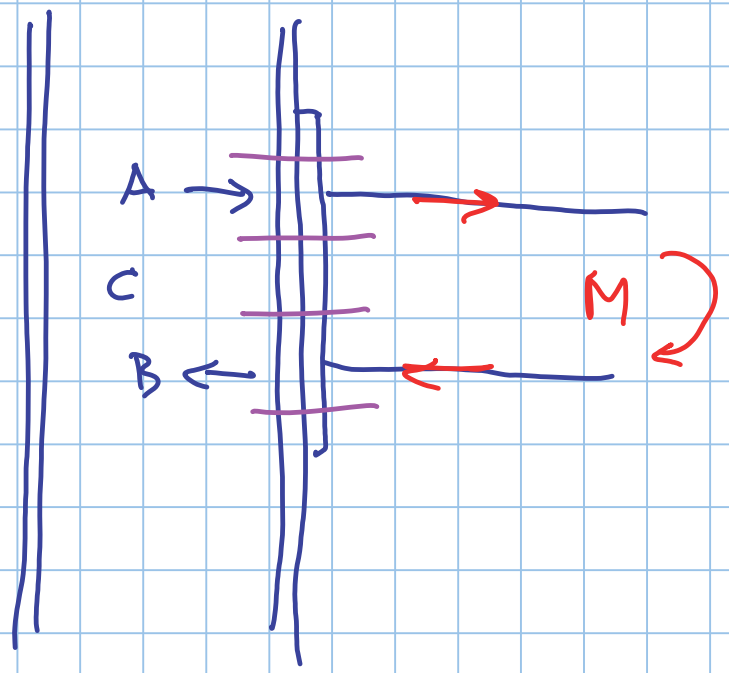


EFFETTO
LEVA









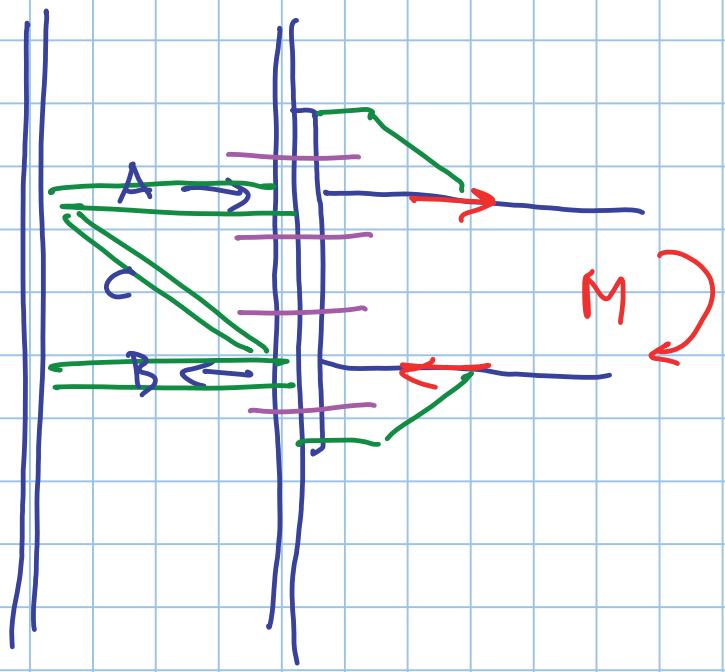
flessione nelle flange

flessione nell'ala colonna

trazione nell'ultima colonna in A

compressione in B

taglio in C



flessione nelle flange

flessione nell'ala colonna

trazione nell'anima colonna in A

compressione in B

taglio in C