

$$N(z) = 0$$

$$T(z) = q(l/2 - z)$$

$$M(z) = \frac{qz^2}{2}(l - z)$$

2° grado

$$ql^2/8 = N_{MAX} (\Delta)$$

Trave sempl. app., carico unif. q

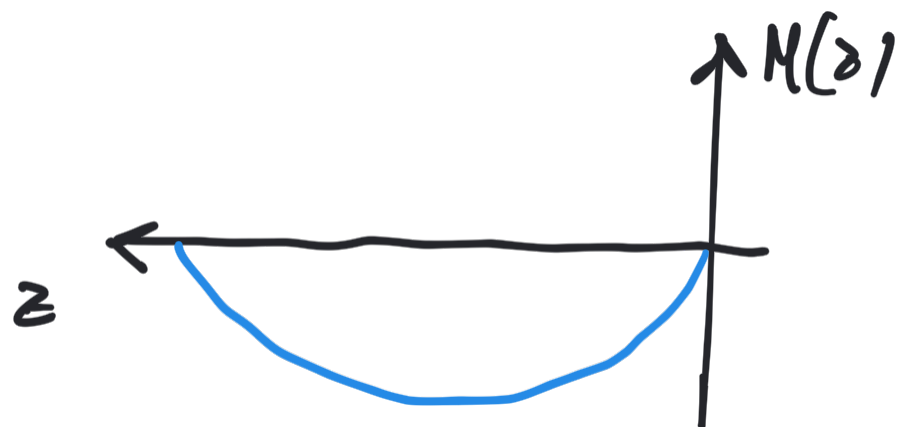
$$\Rightarrow \boxed{N_{max} = \frac{ql^2}{8}} \quad (\text{memoria})$$

Trucco mnemonico

$$[ql^2] = FL^{-1}L^2 = FL = [N]$$

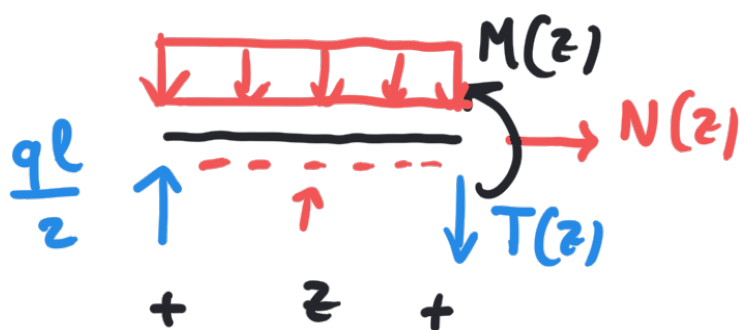
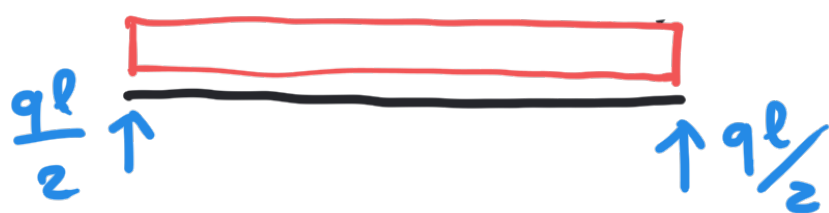
$$\frac{1}{8}$$

$N > 0 \Leftrightarrow$ fibre fibre sup.
 Regole fibre tess $\left. \vphantom{\begin{matrix} N > 0 \\ \text{fibre fibre sup.} \end{matrix}} \right\} \Rightarrow N > 0$ di apr.
Fibre linea guide.



la convergenza adoperata per N
 non dipende da come abbiamo
 orientato l'asse.

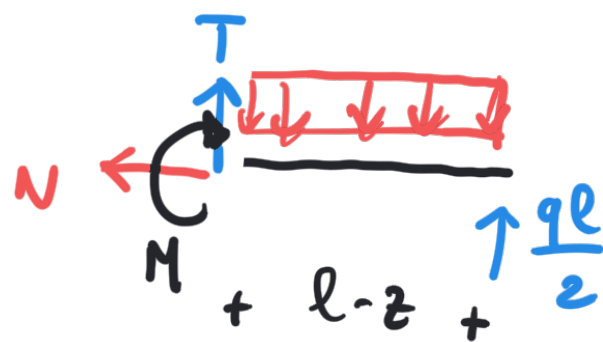
OSSERV. : le CdS si possono determinare
indifferentemente imponendo l'equilibrio
della pa



$$N(z) = 0 \quad \checkmark$$

$$T(z) = q\left(\frac{l}{2} - z\right) \quad \checkmark$$

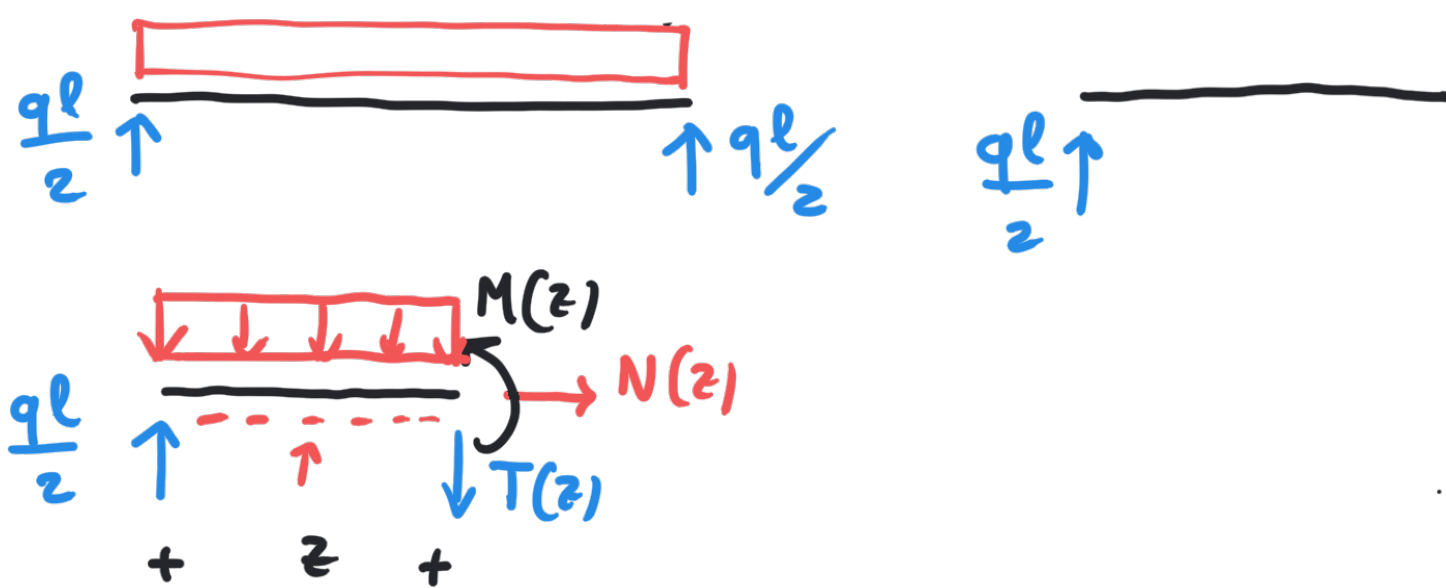
$$M(z) = \frac{qz}{2}(l - z)$$



$$T + \frac{ql}{2} - q(l - z) = 0$$

$$T = \underbrace{ql - \frac{ql}{2}}_{\frac{ql}{2}} - qz$$

OSSERV. : le CdS si possono determinare indifferentemente imponendo l'equilibrio della parte che precede o della parte che segue.

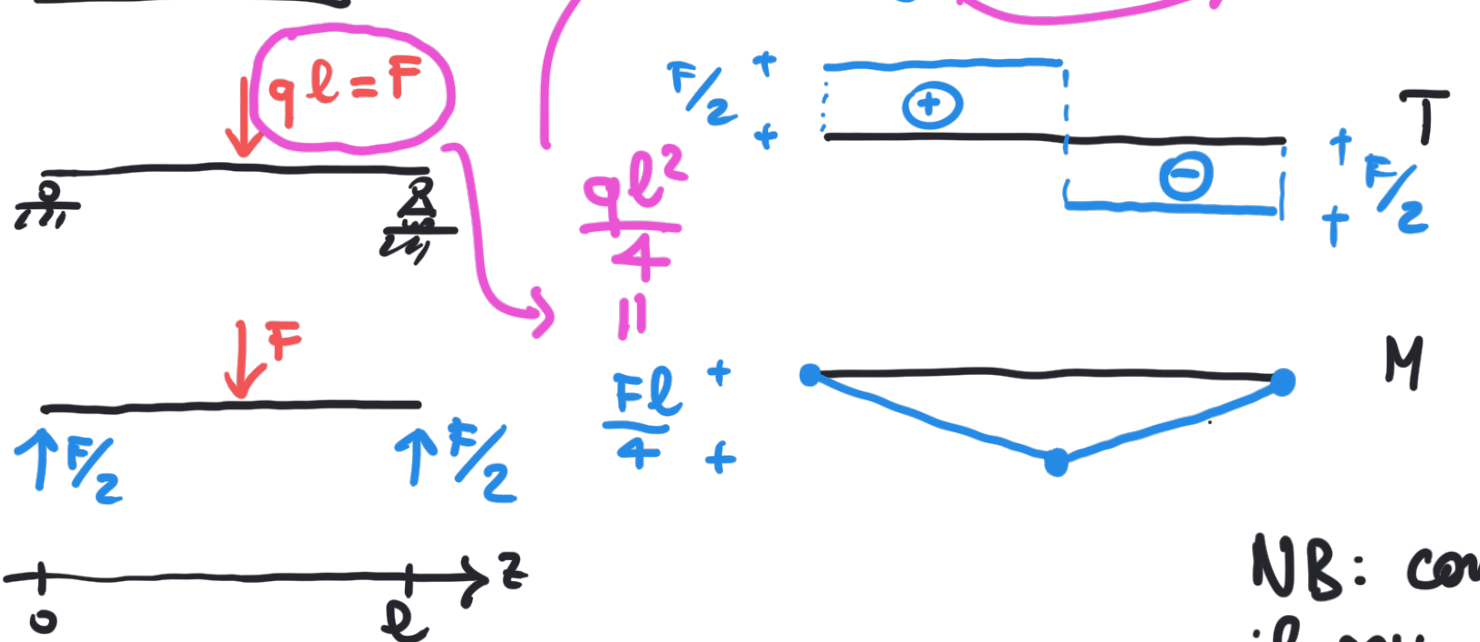


$$N(z) = 0$$

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

$$M(z) = \frac{qz}{2} (l - z)$$

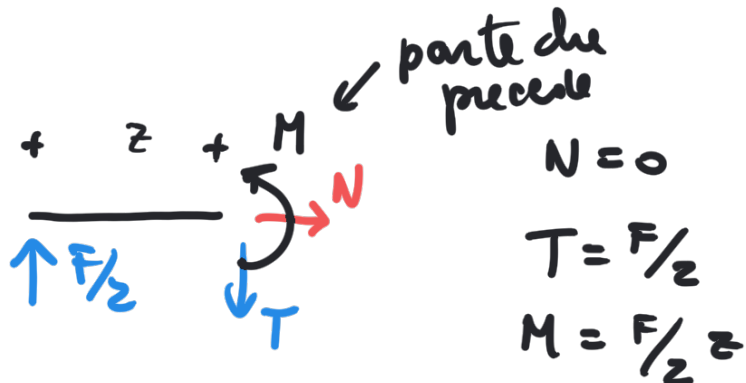
ESEMPIO 2



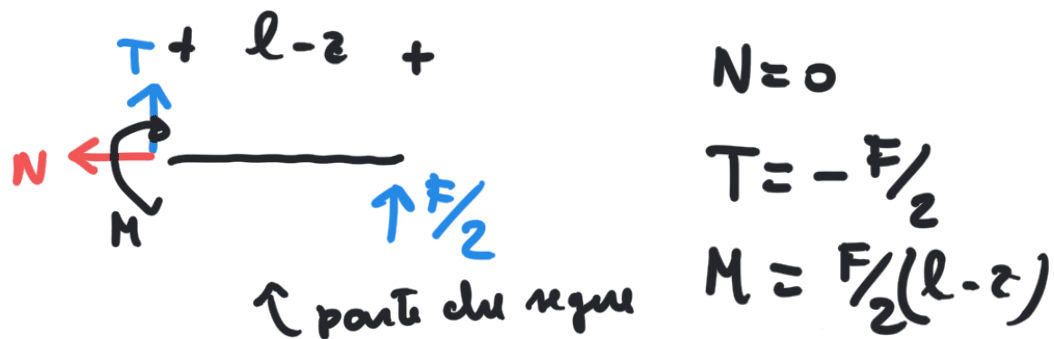
NB: concentrando il carico in mezz'aria M_{max} raddoppia!

2 casi:

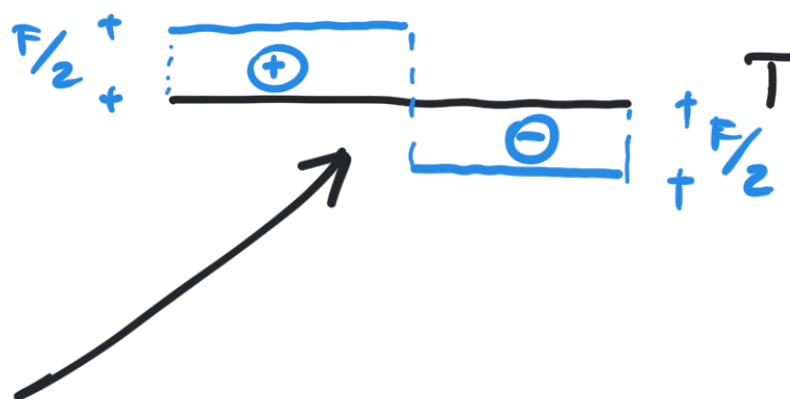
① $z < l/2$



② $z > l/2$



diagr. deve evidenz.
discount.



OSSERVAZIONI:

NB: concentrando
il carico
nella mezzina
il momento
flettente max. si
raddoppia!

