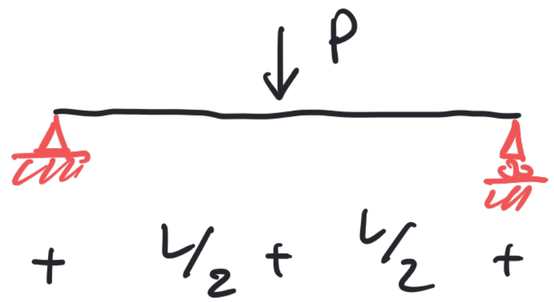
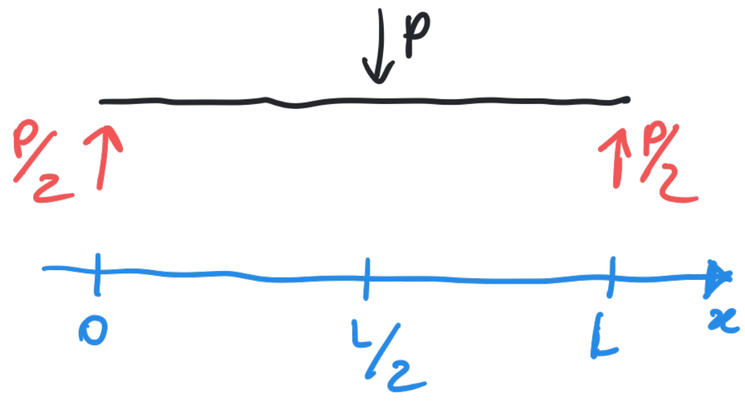
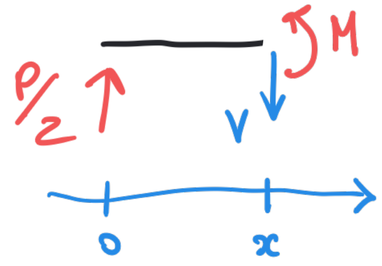
Metodo analitico per il tracciamento dei diagrammi delle CdS.

Trave su due appoggi



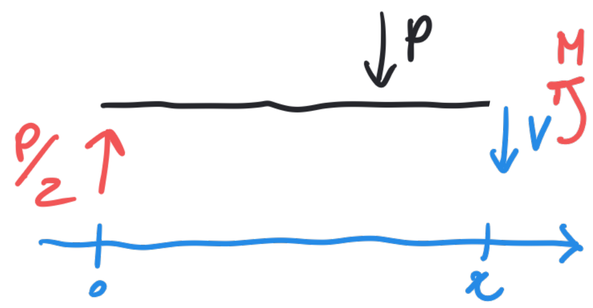
Reazioni





$V = P/2$

$M = P/2\,x$



$\uparrow \Sigma F_y = 0$

$P/2 - P - V = 0$

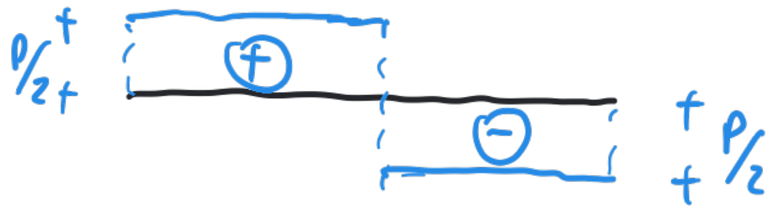
$V = -P/2$

$\circlearrowleft \Sigma M = 0$

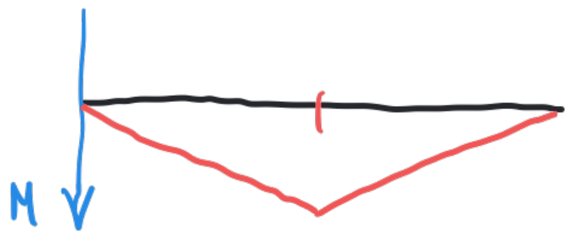
$M + P\left(x - \frac{L}{2}\right) - \frac{P}{2}x = 0$

$M = P/2\,(L - x)$

V

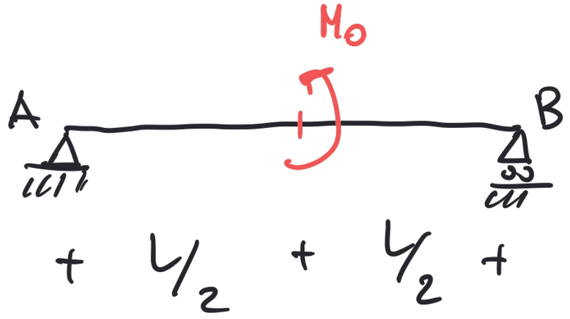


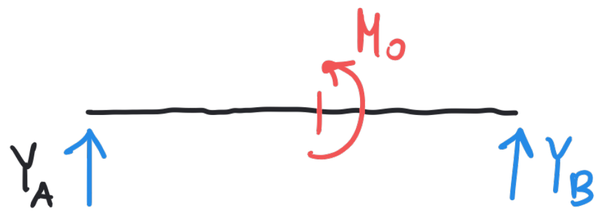
M



$+\ PL/4\ +$

fibre tese inferiori.

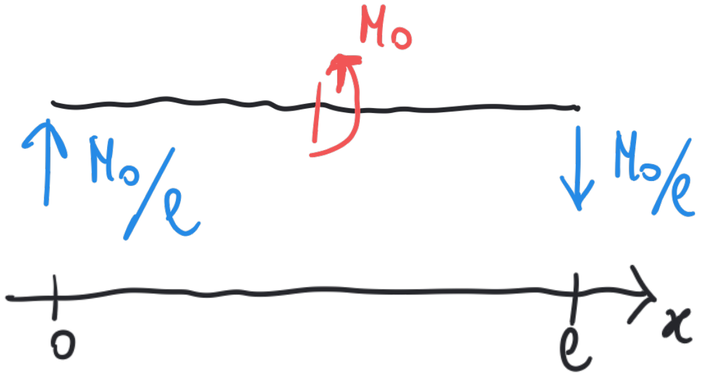


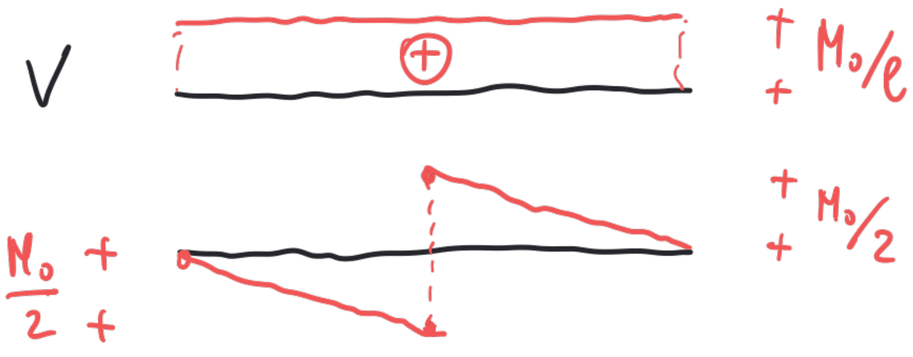


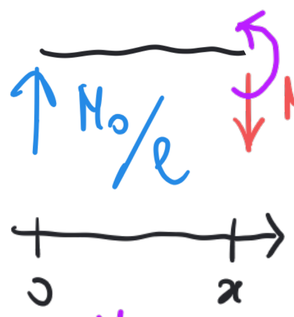
$\circlearrowleft \sum M_A = 0 \Rightarrow M_0 + Y_B \ell = 0 \Rightarrow Y_B = -M_0/\ell$

$\uparrow \sum F_y = 0 \Rightarrow Y_A = -Y_B = M_0/\ell$

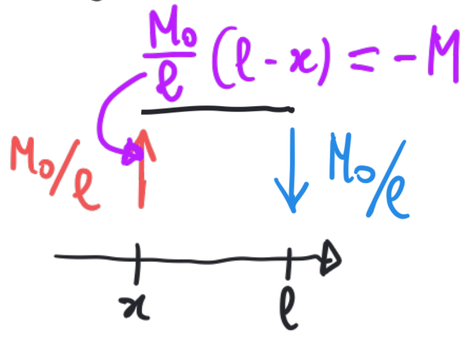
Schema di corpo libero:







$\Rightarrow M(\ell/2-) = \frac{M_0}{2}$



$\Rightarrow M(\ell/2+) = -M_0/2$

$M(\ell) = 0$