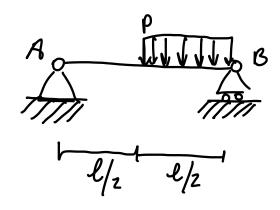
Reasoni Vincoloni e asioni interne in 2D

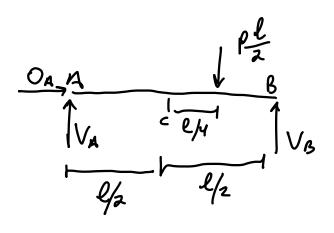
Esercizio 1



Analisi Cinematica

Andirando veoliamoche è isortatico

Reasioni Vincolori



$$O_{A} = 0$$

$$A = 0$$

$$A = 0$$

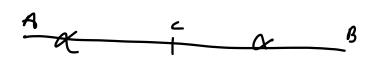
$$V_{B} = \frac{3}{8} \rho l$$

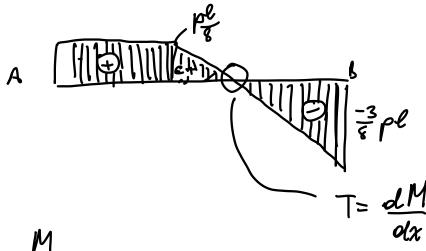
A Evani Interne > Nelle asion: interne non si frei
prendere il conico di stribuito come
conico punterle, deve n'inanere
distribuito 13 pe Nett + JAN fesione Si) 01 x 2 2 ~) N=0 1) T= pe) M- pl 2=0 $M = \frac{\rho \ell p}{8} \left(\begin{array}{c} \chi = 0 \\ M_{h} = 0 \end{array} \right) = \frac{\ell}{2}$ $2 \mu \epsilon = \frac{\rho \ell^{2}}{16}$ Servoue & DEXE ~)*N=0 () (I) I S $\uparrow)^{+} \uparrow - \rho x + \frac{3}{8} \rho \ell = 0$ $T = px + \frac{3}{8}pl \begin{cases} x = 0 \\ T_{8} = \frac{3}{8}pl \end{cases}$

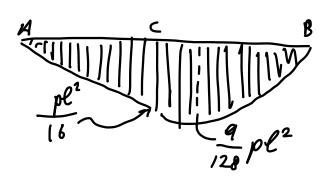
$$M + \rho \frac{\chi^2}{2} - \frac{3}{8} \rho \ell x = 6$$

$$M = \frac{3}{8} \rho \ell x - \rho \frac{\chi^2}{2}$$

$$\begin{cases} \chi = 0 & \begin{cases} \chi = \ell/2 \\ M_B = 0 \end{cases} & \begin{cases} \chi = \ell/2 \\ M_C = \rho \frac{\ell^2}{12} \end{cases}$$







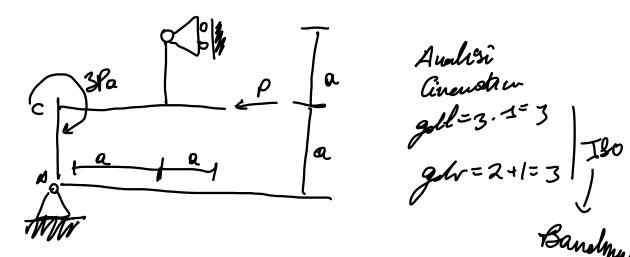
$$\int_{0}^{+} M + \frac{\partial M}{\partial x} dx - M - T dx - T dx - T dx - T dx$$

$$\frac{\partial M}{\partial x} dx - T \frac{\partial x}{\partial x} - T \frac{\partial x}{\partial x} - T \frac{\partial x}{\partial x} = 0$$

$$-\frac{\partial M}{\partial x} \frac{\partial x^{1}}{\partial x} = 0$$

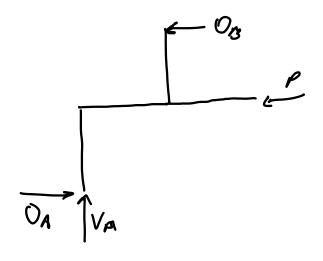
Prendends:
$$q = \frac{dT}{dx} e T = \frac{-olM}{dx}$$

Esercisio 2



Bandmuk

Reosi oui Vincolori



$$\int_{A}^{+} V_{a} = 0$$

$$A\int_{B}^{+} -3l_{a} + l_{a} + l_{b} \cdot 2a = 0$$

$$O_{B} = l$$

$$\longrightarrow)^{+} Q_{A} - O_{B} - P = O \rightarrow O_{A} = 2P$$

Scarace Si

Serione Sz) DE TE a

$$N = \frac{1}{\sqrt{\frac{S_3}{N+P}}} = 0$$

$$N = -P$$

$$S_3 = 0$$

$$S_3 = 0$$

$$(T)^{\dagger} P+T = 0 \Rightarrow T = -P$$

$$(T)^{\dagger} T = 0$$

$$(S)^{\dagger} M - Px = 0 \Rightarrow M = Px$$

$$(M_{B} = 0) M = Pa$$

$$(M_{D} = Pa)$$

