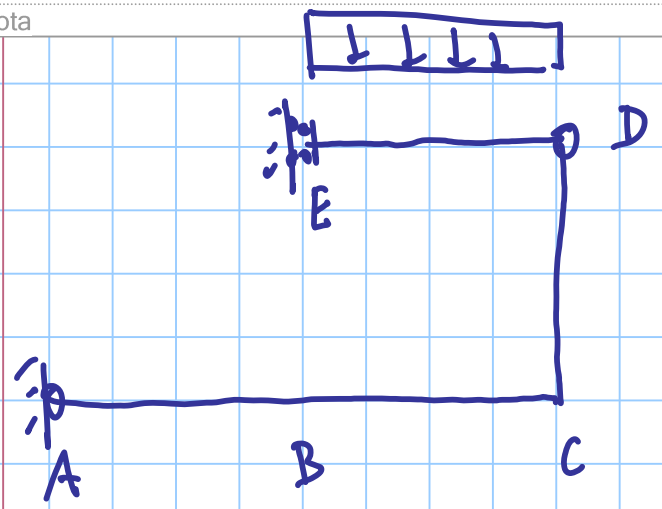
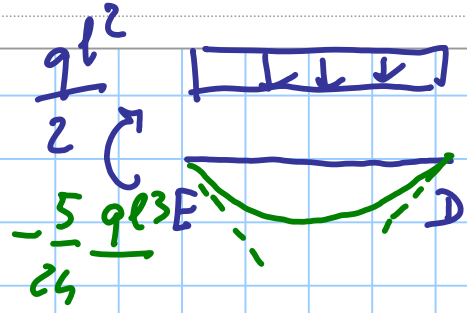
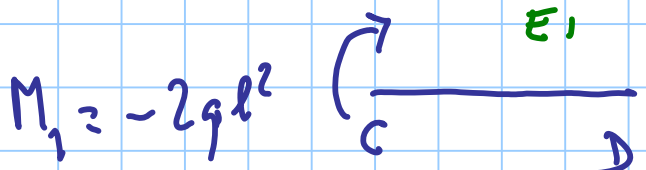
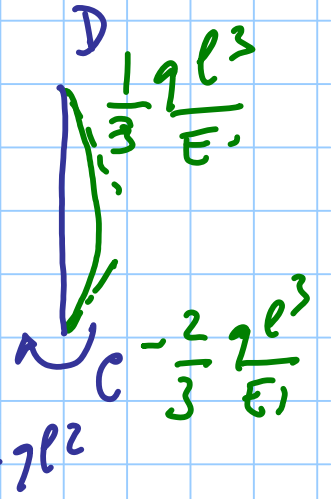
Titolo nota 05/11/2014

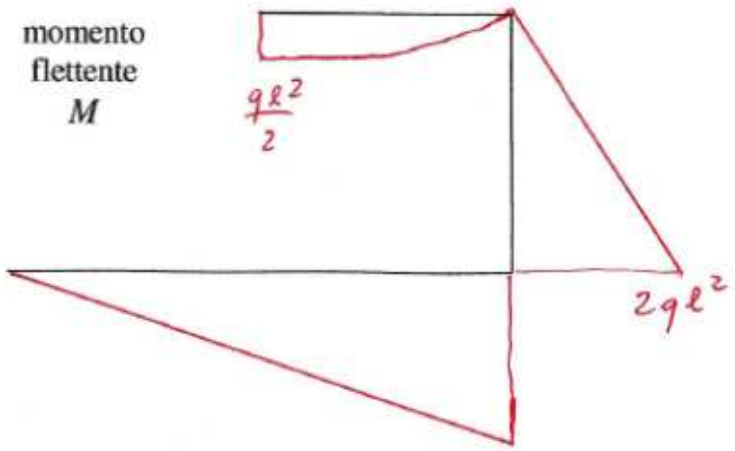


$M_1 = -\frac{ql^2}{2}$

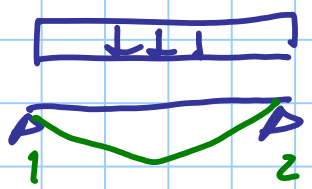






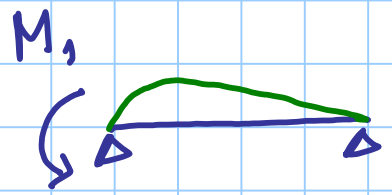


$-\frac{2}{3}\frac{ql^3}{EI}$ $\frac{4}{3}\frac{ql^3}{EI}$ $M_2 = 2ql^2$



$$\varphi_1 = -\frac{q\ell^3}{24EI}$$

$$\varphi_2 = +\frac{q\ell^3}{24EI}$$



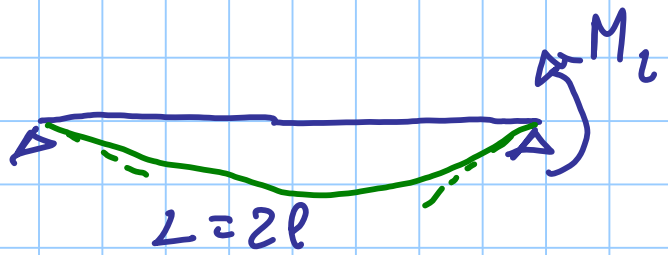
$$\varphi_1 = \frac{M_1 \ell}{3EI}$$

$$\varphi_2 = -\frac{M_1 \ell}{6EI}$$

$$M_1 = -\frac{q\ell^2}{2}$$

$$\varphi_1 = -\frac{q\ell^3}{6EI}$$

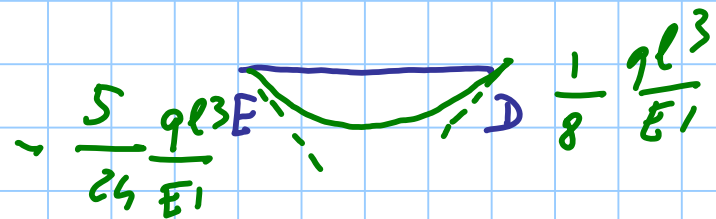
$$\varphi_2 = \frac{q\ell^3}{12EI}$$

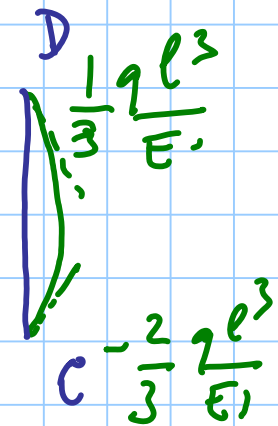


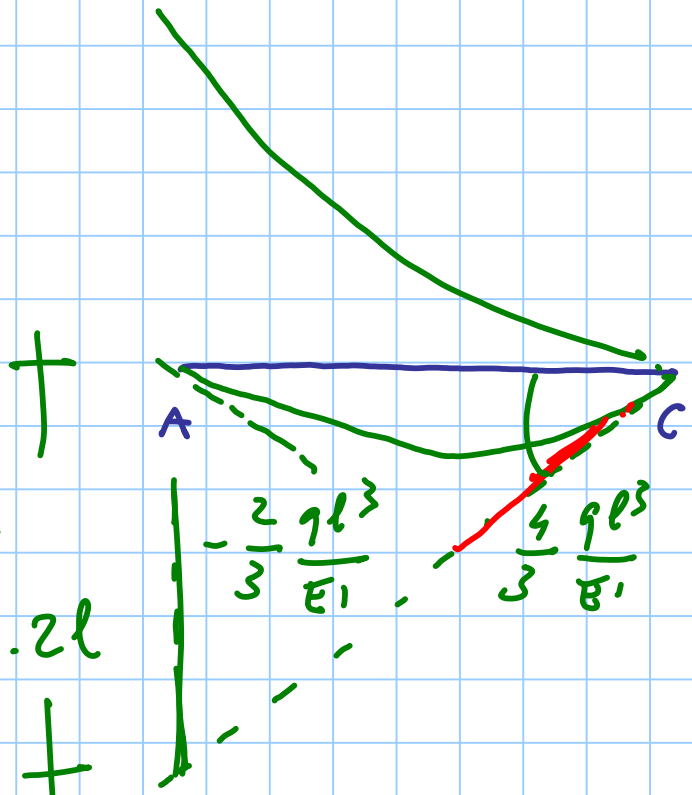
$$M_2 = 2q\ell^2$$

$$\varphi_1 = -\frac{M_2(2\ell)}{6EI} = -\frac{2}{3}\frac{q\ell^3}{EI}$$

$$\varphi_2 = \frac{M_2(2\ell)}{3EI} = \frac{4}{3}\frac{q\ell^3}{EI}$$

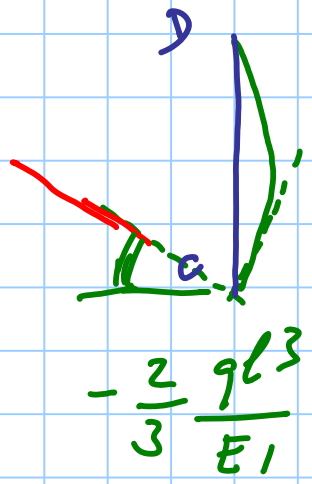


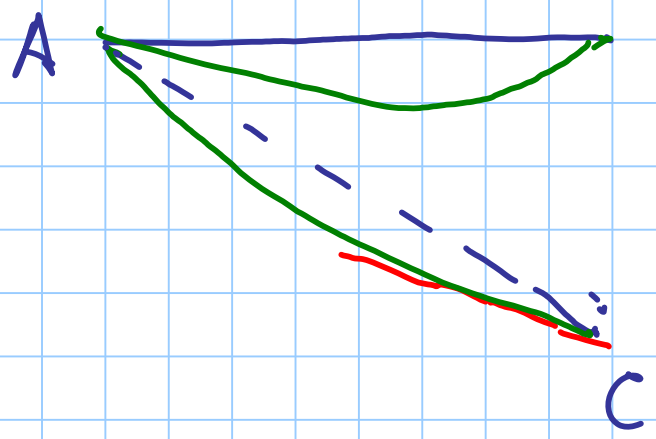




$\varphi_L =$

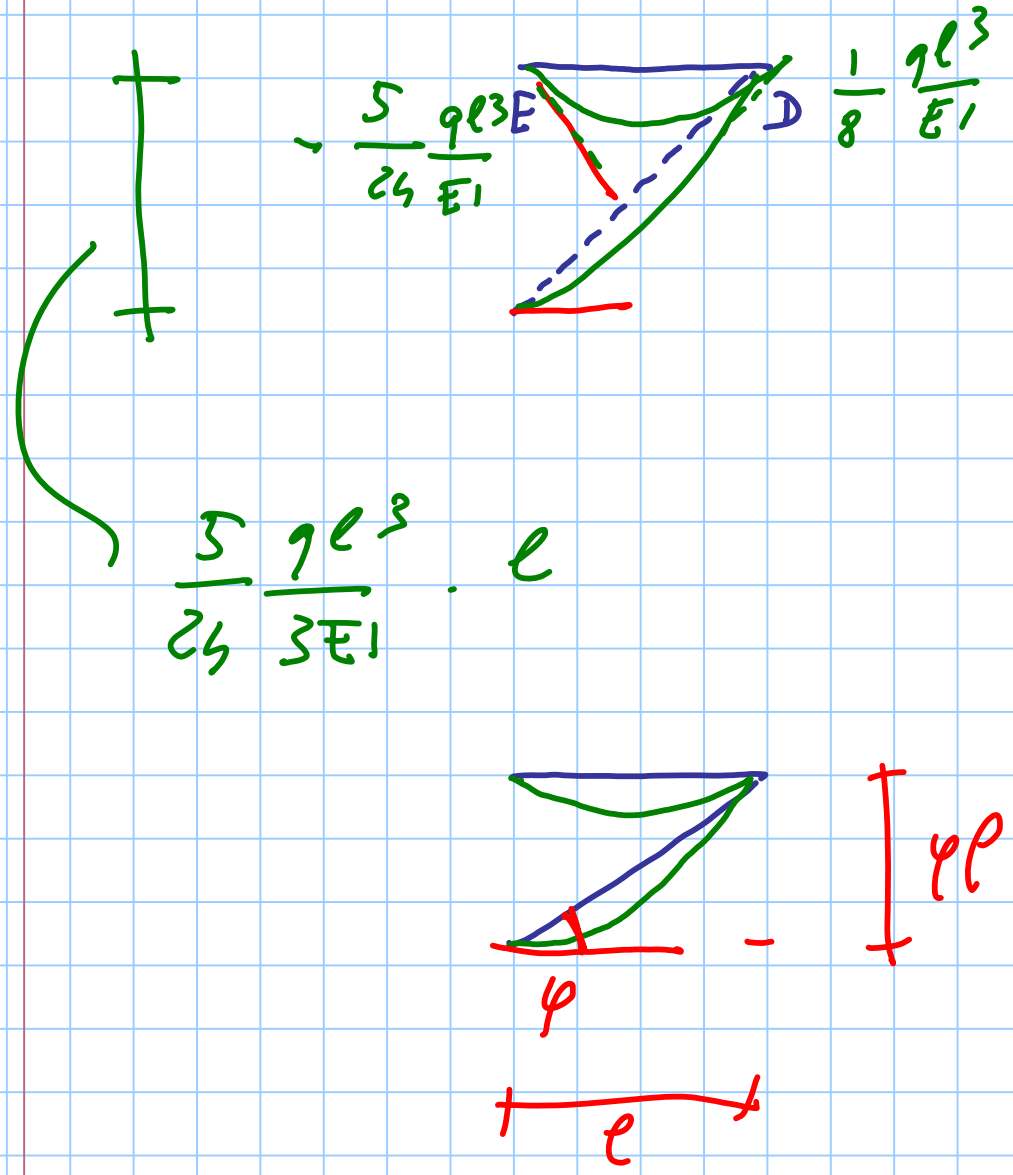
$\frac{4}{3}\frac{ql^3}{EI} \cdot 2l$

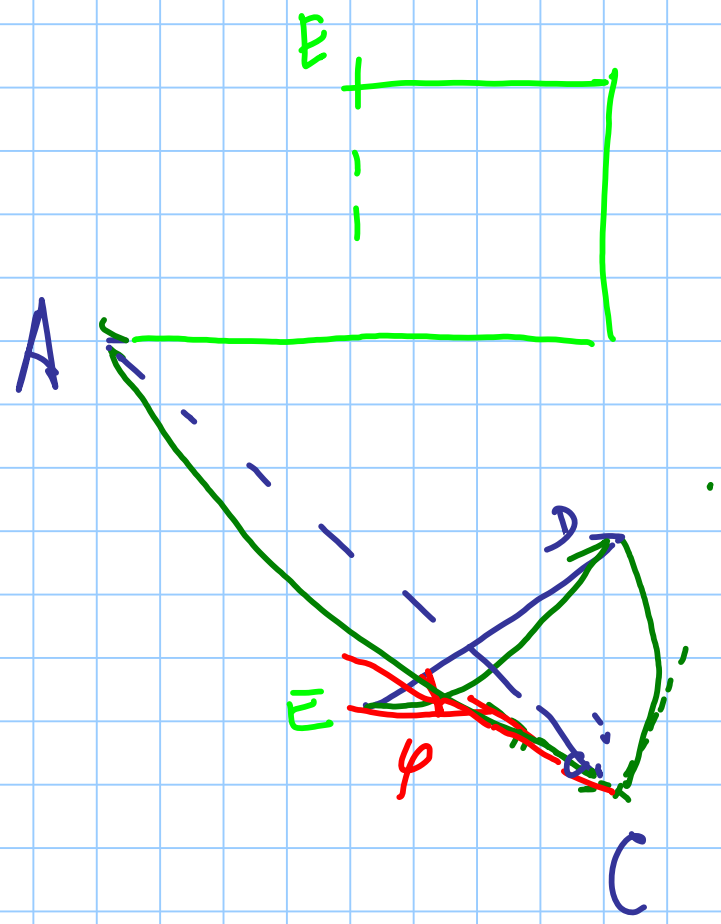




$$v_2 = \frac{8}{3}\frac{q l^4}{EI}$$

$$v = \text{⌊——⌋} + v_2 \frac{x}{L}$$

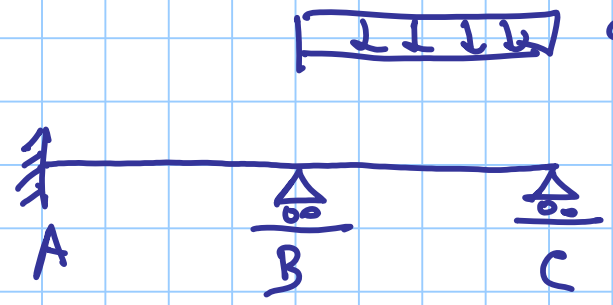

$\frac{5}{24}\frac{ql^3}{EI}$
E
D
$\frac{1}{8}\frac{ql^3}{EI}$
$\frac{5}{24}\frac{ql^3}{3EI}\cdot l$
φ
φl
l


E
A
D
E
φ
C

SCHEMI IPERSTATICI

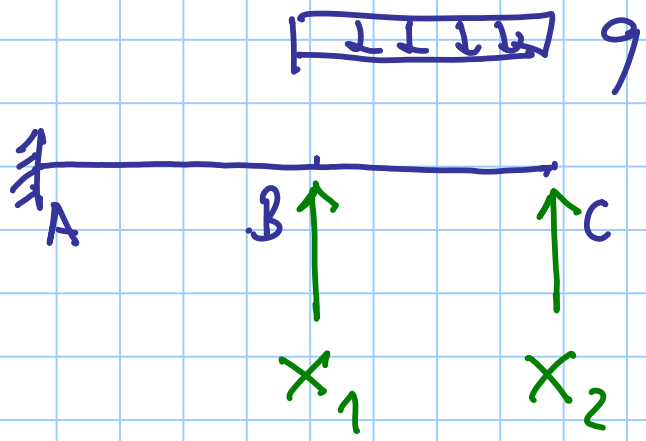
- METODO DELLE FORZE

- METODO DEGLI SPOSTAMENTI



2 volte iperstatica

- creo delle sconnessioni (interne o esterne)
- considero come incognite le azioni che in realtà si devono trasmettere attraverso le sconnessioni
- determino le incognite imponendo condizioni di congruenza

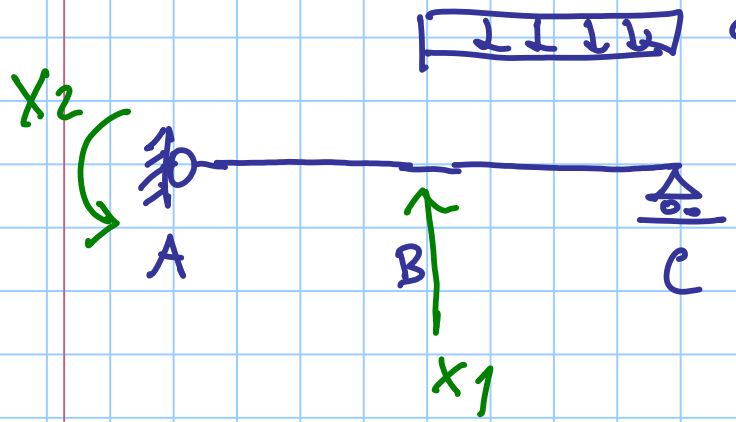


Condizioni

GIOIA

$u_{z,B} = 0$

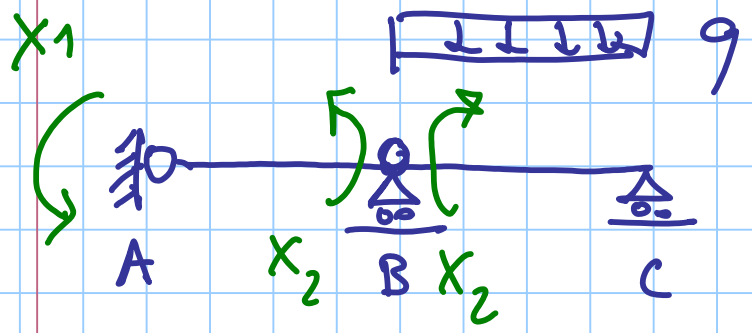
$u_{z,C} = 0$



$u_{z,B} = 0$

SAMMITO

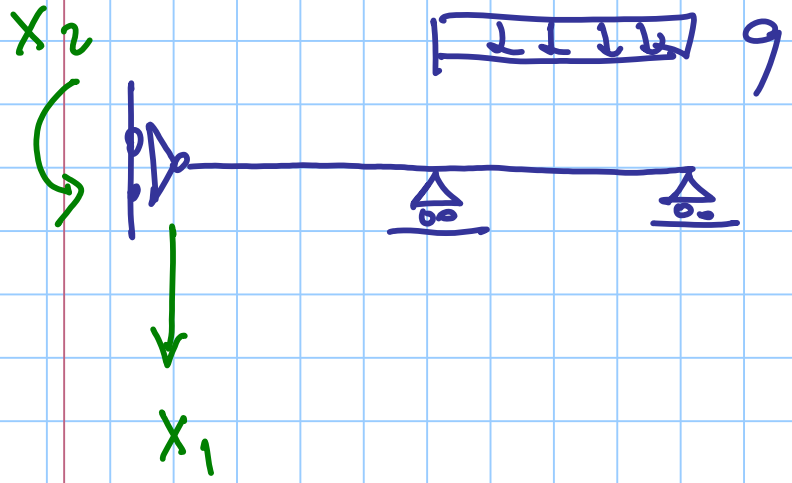
$\varphi_{y,A} = 0$



$$\varphi_{y,A} = 0$$

DI LEO

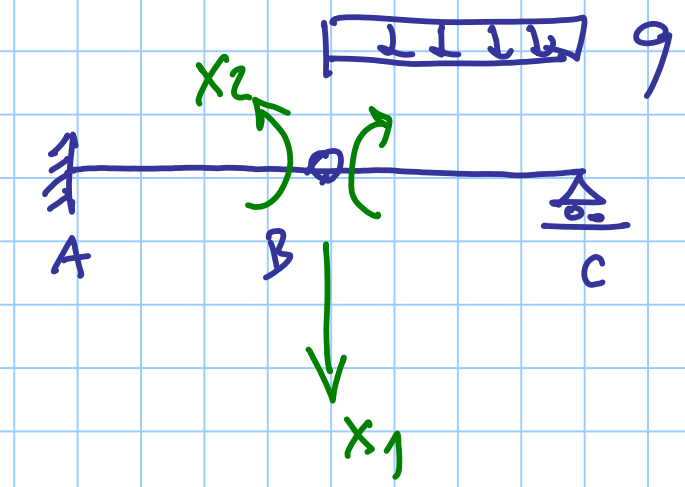
$$\varphi_{y,B,sin} = \varphi_{y,B,des}$$



$$M_{z,A} = 0$$

SPILLA

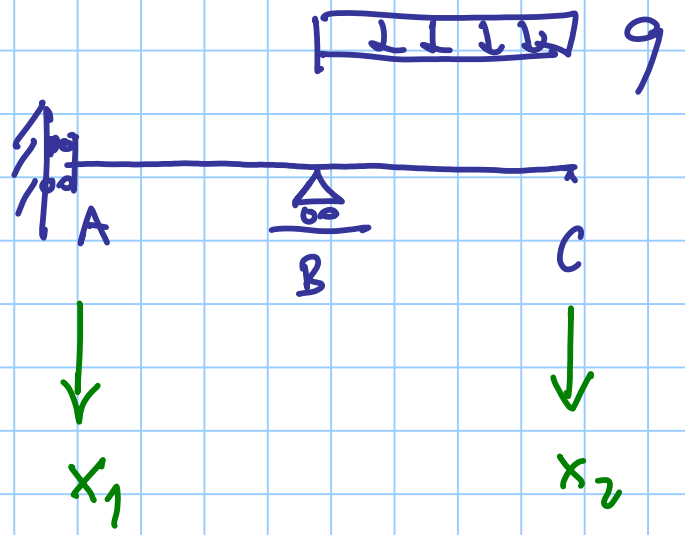
$$\varphi_{y,A} = 0$$



$$M_{z,B} = 0$$

COSTANTINO

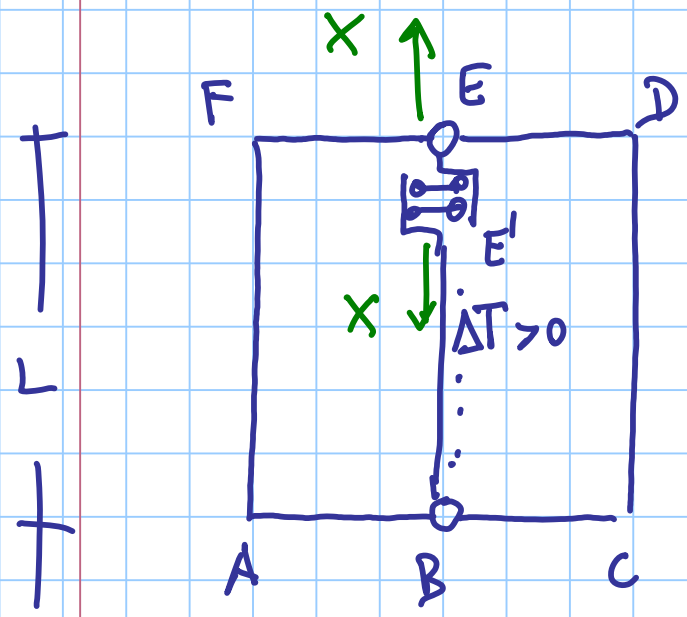
$$\varphi_{y,B,sin} = \varphi_{y,B,des}$$



$$M_{z,A} = 0$$

SOTTILE

$$M_{z,C} = 0$$



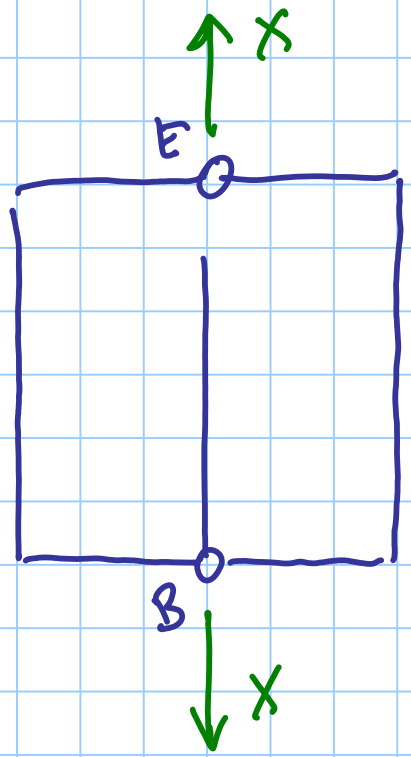
GUARINO

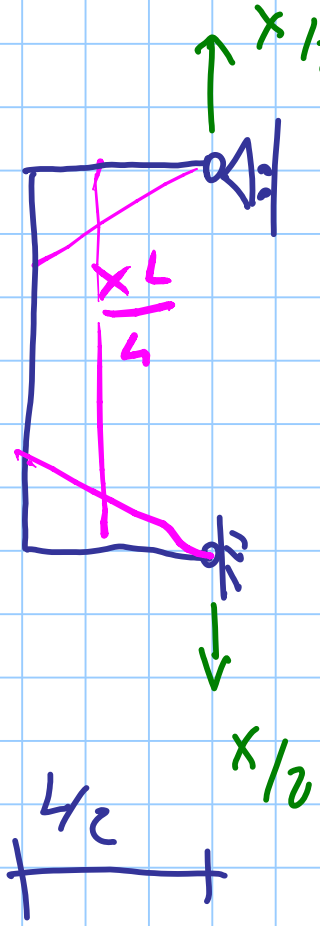
$u_{z,E'} = u_{z,E}$

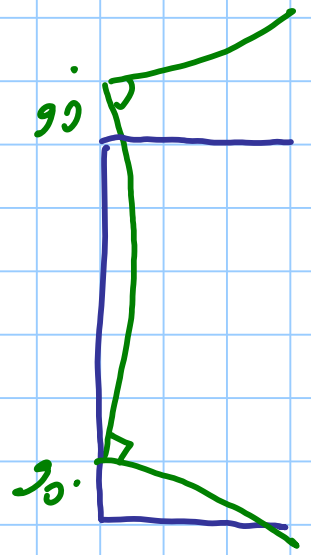
B fino (incastro)

$u_{z,E'}(\Delta T) = -\alpha L \Delta T$

$u_{z,E'}(X) = \frac{X L}{E A}$


X
E
B
X


X/2
xL/4
X/2
L/2


90°
30°