$$N = F$$
 $N = FAE$
 $\Rightarrow e = \frac{F}{EA}$

sistema congruent sikua reale

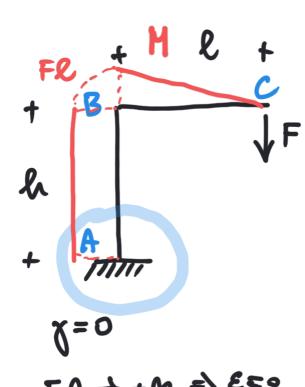
PLV:

Lve =
$$1 \cdot w_B + (-1)w_A$$

Lvi = $\int_0^L N \in A^2 = N = 0$
 $w_B = \frac{F\ell}{EA}$

sistimo virtuale

$$\frac{A}{N=1}$$
, $T=0$, $M=0$



$$\chi = \frac{H}{EI} = \frac{FN}{EI}$$

$$\overline{H}(z_1) = -\ell$$
 $\overline{H}(z_2) = z - \ell$

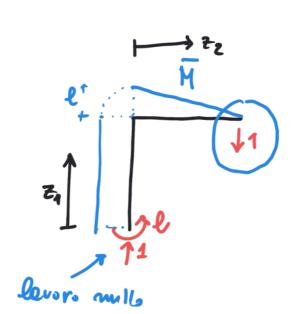
$$V_{c} = ?$$

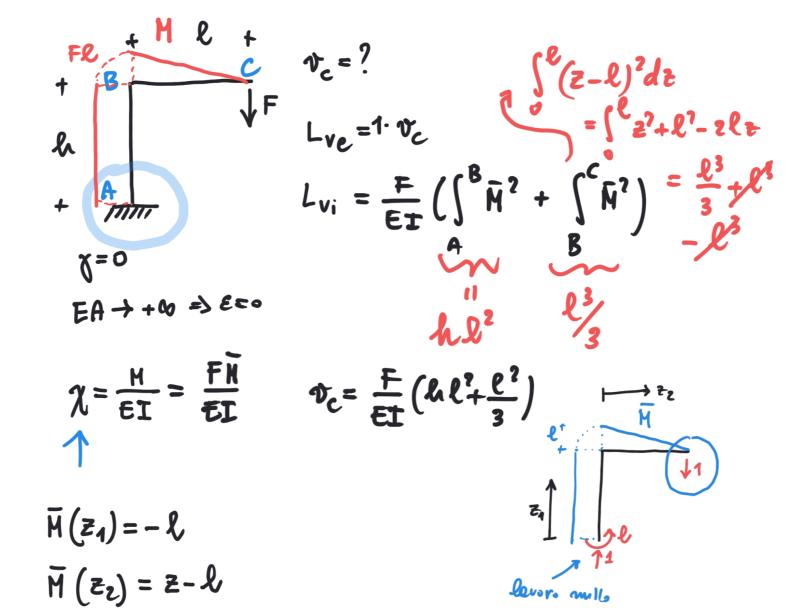
$$L_{ve} = 1 \cdot V_{c}$$

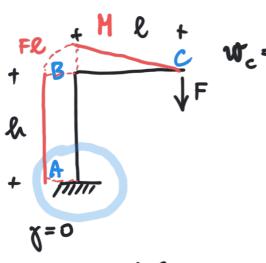
$$L_{vi} = \int \overline{H(z)} \chi(z) dz = \int \overline{H(z)} \frac{H(z)}{EI} dz$$

$$stvutt.$$

$$= \frac{F}{EI} \int \overline{M}^{2}(z) dz$$



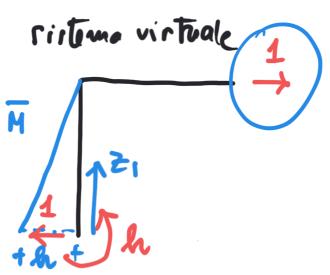




$$\chi = \frac{H}{\epsilon I}$$

$$H(z_4) = (-l)F$$

$$H(z_2) = (2-l)F$$

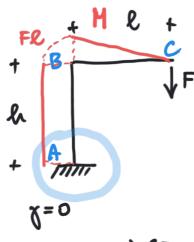


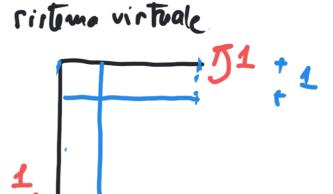
$$L_{Vi} = \int \frac{\overline{H}}{EI} = \int (z_1 - h_1) (-l) F \frac{1}{EI} dz_1$$

$$Virhual = -\frac{Fl}{EI} \int (z_1 - h_1) dz_1$$

$$\overline{H}(z_1) = z_1 - h$$

$$= -\frac{F\ell}{EI} \left(\frac{h^2}{2} - h^2 \right) = \frac{1}{2} \frac{F\ell h^2}{EI}$$





$$\chi = \frac{H}{\epsilon I}$$

$$L_{Vi} = \int_{Virhun'} \frac{H}{EI} = \frac{1}{EI} \int_{0}^{h} H(z_1) dz_1 + \frac{1}{EI} \int_{0}^{l} H(z_2) dz_1$$
virhun'

$$H(z_1) = (-l)F$$

 $H(z_2) = (z-l)F$

$$=\frac{1}{E\Gamma}\left(-\ell F\right)h+\frac{1}{E\Gamma}\left(\frac{\ell^2}{2}-\ell^2\right)F$$

$$= -\frac{F}{ET}\left(\ell h + \frac{\ell^2}{2}\right)$$