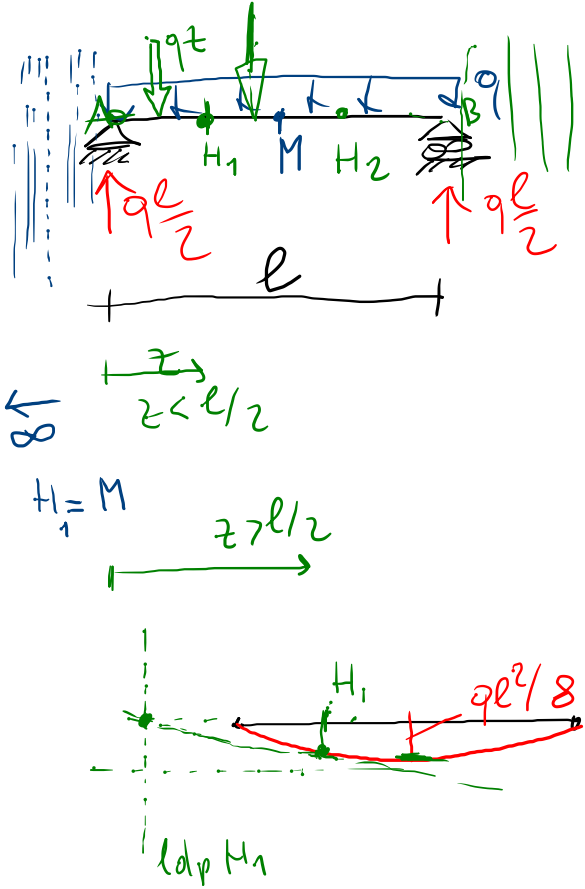
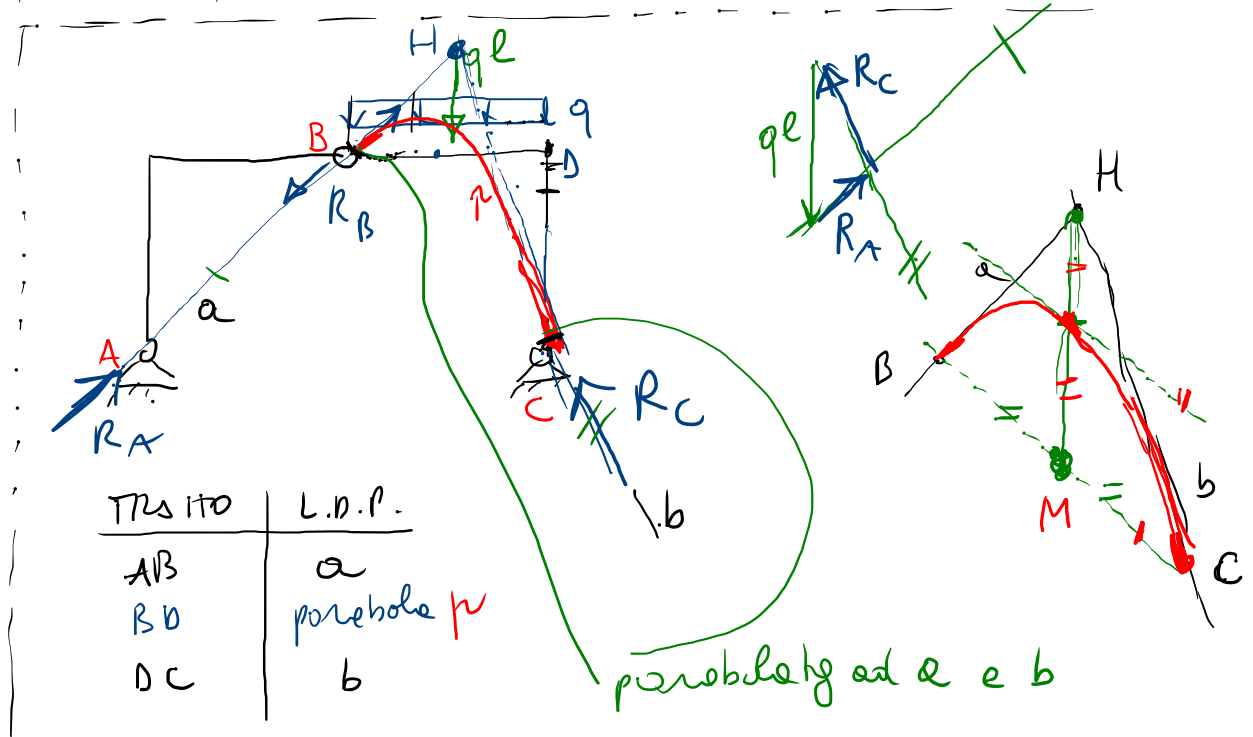


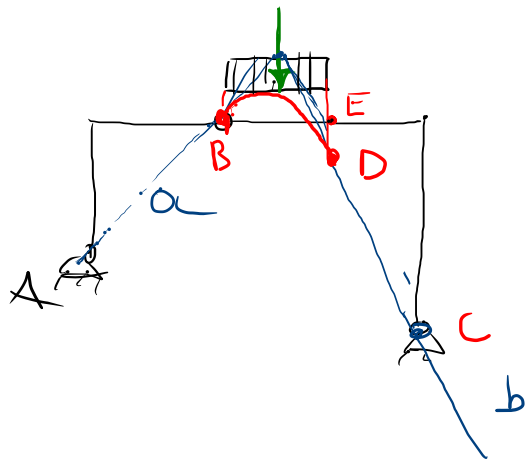
--- CURVA DELLE PRESSIONI

15/12/22



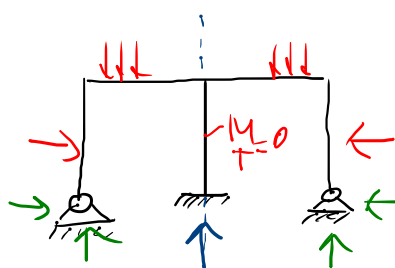
TRA ITO	L.D.P.
A M	FASCIO RETTE // ALLA SIN DI A
M B	" " " " DESTRO DI B





TRUSS	LDP
AB	a
BE	perbole p
EC	b

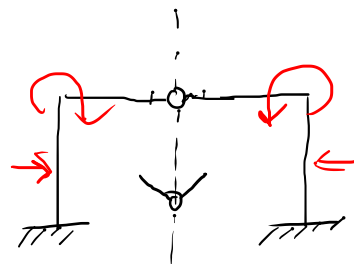
INTEGR. SIMM. STRUTTURE



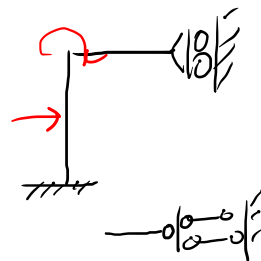
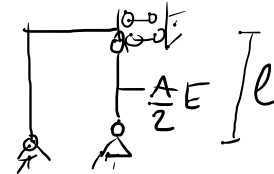
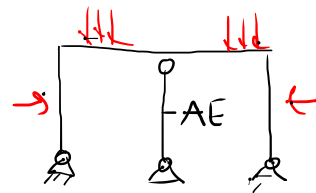
STR SYM

CRICO SYM

RISP. STRUT - SYM

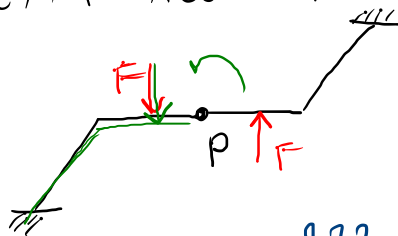


2 V 1 PER ST



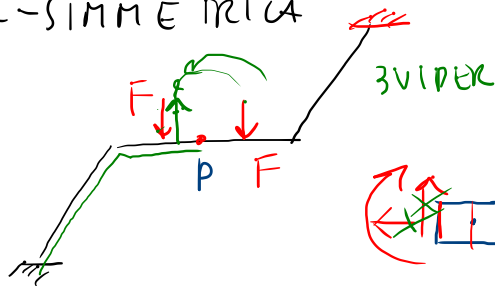
1 V 1 PER

CENM AUF STR. POLAR-SIMMETRICA

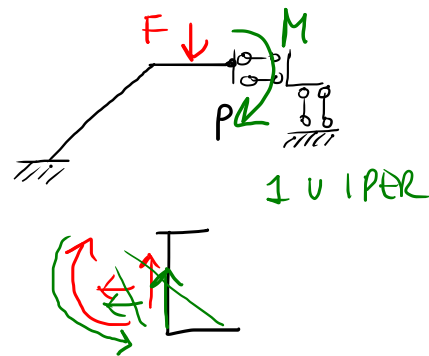
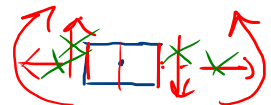


STR SYM
COR-SYM

???

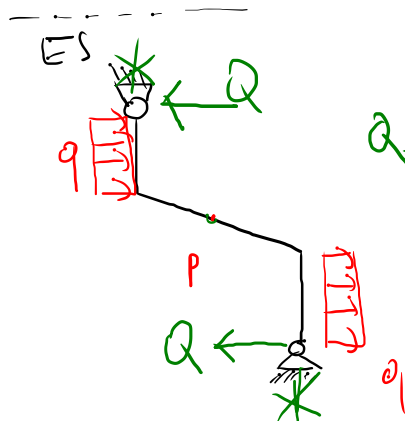


STR SYM
COR ANTISYM

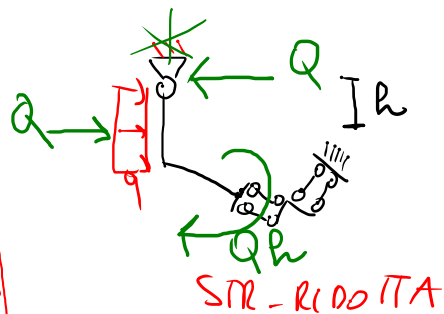


1 U I PER

RISP. STR. = ANTI SYM

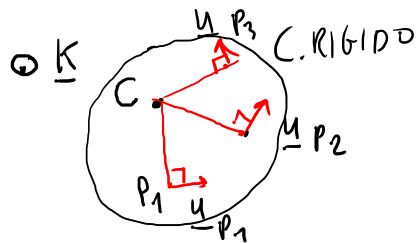


CSR. ANTISYM



STR-RIGIDITA

CALCOLO DELLE REAZ. VINCOLARI NELLE STRUTTURE ISOSTATICHE CON IL P.L.V.

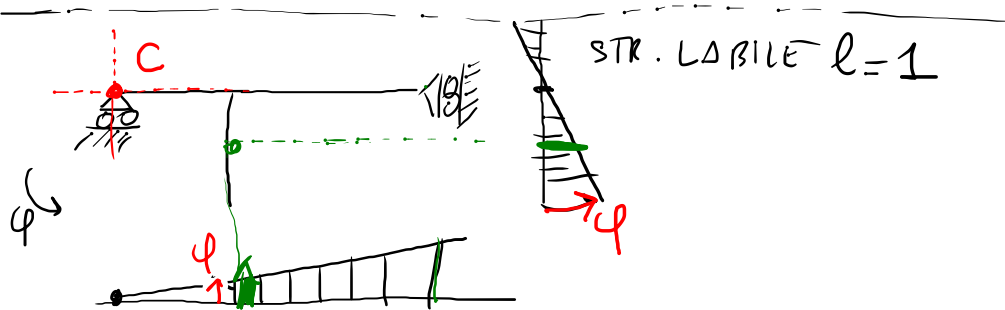
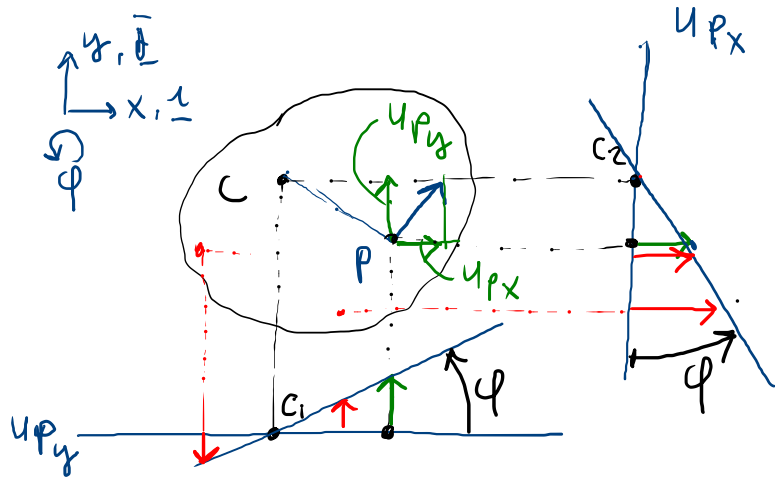


C' : CENTRO DI INSTANTANEA ROTAZ. (CIR) ($\underline{u}_C = \underline{0}$)

→ ROTAZ. INFINITES. $\underline{\omega} = \varphi \underline{k}$

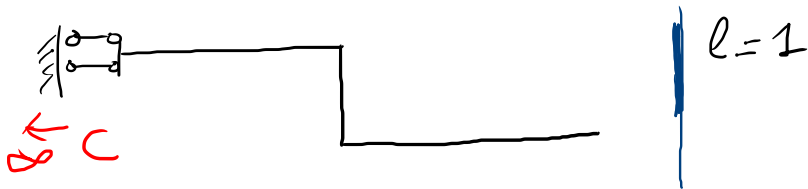
$$\underline{u}_P = \underline{\omega} \times \underline{CP} \quad (P-C)$$

ΔITO DI MUOV. ROTO-TRASLATORIO

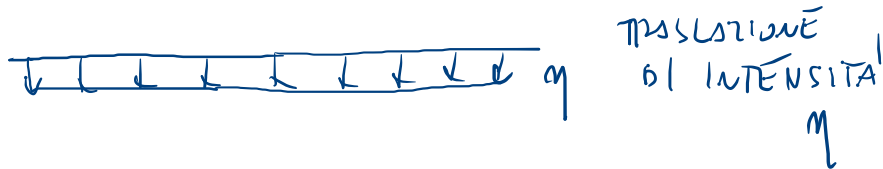


STR. LABILE $\ell = 1$

STR. UNA VOLTA LABILE: MECCANISMO CINEMATISMO

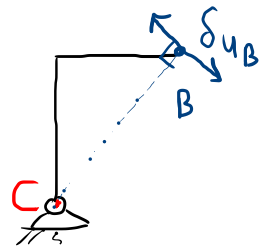


$\ell = 1$



TRASLAZIONE DI INTENSITA' q

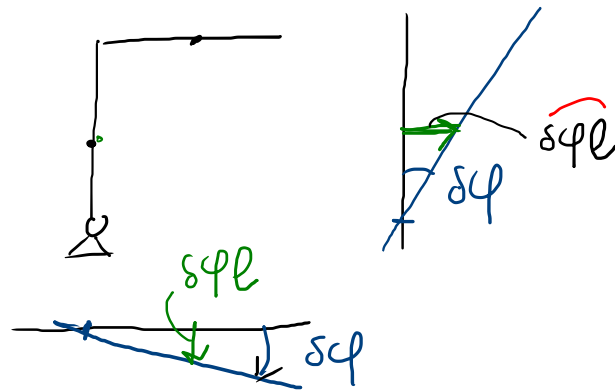
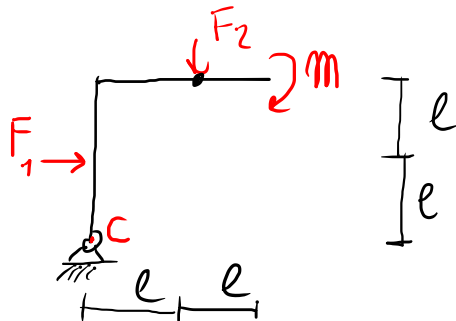
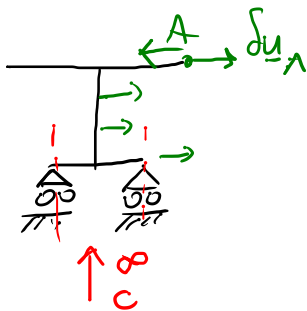
CONCETTO SPOST. VIRTUALE PER UN SIST. MECCANICO: OGNI CLASSE DI SPOSTAMENTI INFINITESIMI COMPATIBILE, OLTRE CHE CON IL VINCOLO DI RIGIDITA', CON I VINCOLI DEL SISTEMA.



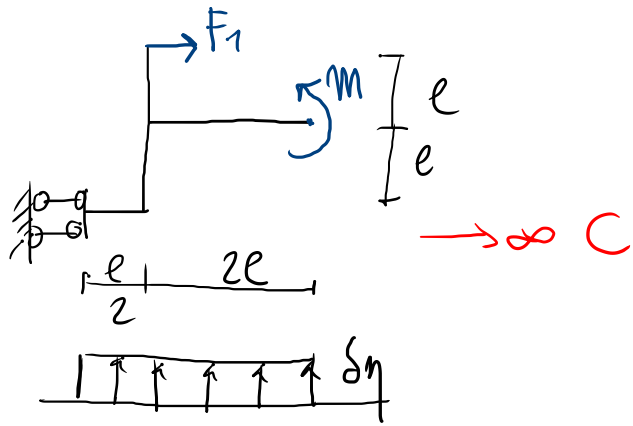
SPOST. VIRTUALE
DEL PUNTO B

CONSTR. IL LAVORO VIRTUALE DI UN SIST. DI FORZE APPLICATO AD UN CINEMATICO

$$\delta L = \sum_i \underline{F}_i \cdot \delta \underline{u}_i + \sum_j M_j \delta \varphi_j$$



$$\delta L = F_1 \delta \varphi l + F_2 \delta \varphi l + M \delta \varphi$$

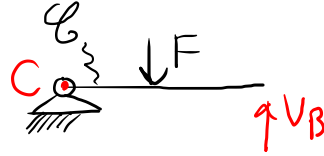
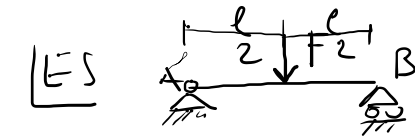


$$\delta L = F_1 \cdot \delta x + M \cdot \delta \theta = 0$$

PRINCIPIO LAVORI VIRTUALI (PER I CORPI RIGIDI)

$$L_{ve} = L_{vi} = 0 \Rightarrow L_{ve} = 0$$

$\delta L = 0$: C.N.S. per l'equilibrio di un sist. costituito da C. RIGIDI nelle configurazioni $\mathcal{C}$, libero o soggetto a vincoli lisci, bilaterali, e che il LAVORO VIRTUALE delle forze (o momenti) sia nullo per tutti i possibili spost. virtuali a partire da $\mathcal{C}$.



RAPPRESENT. DI
TUTTI GLI SPOST. VIRT.

V_B ? con P.L.V.

$$\delta L = 0, \forall \delta \varphi \Rightarrow V_B$$

$$\delta L = F \delta \varphi \frac{e}{2} - V_B \delta \varphi e = 0, \forall \delta \varphi$$

$$\left(\frac{F e}{2} - V_B e \right) \delta \varphi = 0, \forall \delta \varphi$$

$$V_B = + \frac{F}{2}$$