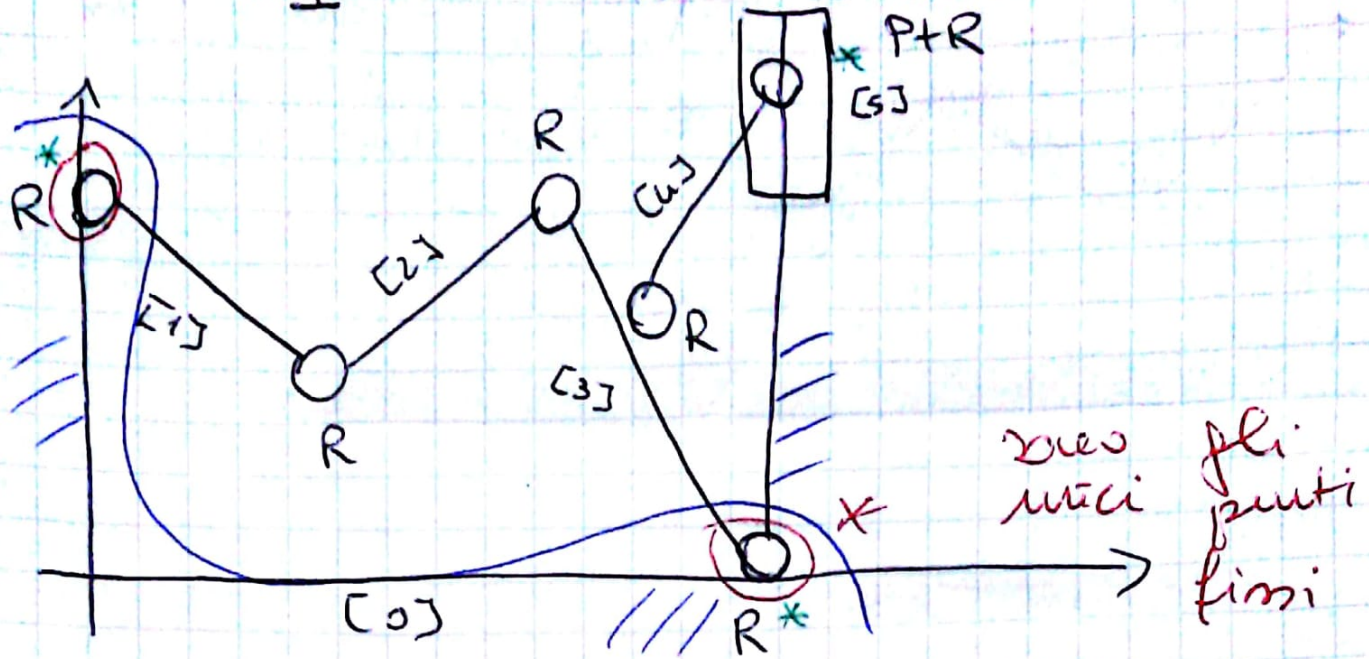


MSSM

LEZIONE

24-10-18

Esercizio 1



• DoF (2 punti)

$$N = 3(\underbrace{m-1}_{m \text{ corpi mobili}}) - 2 \cdot C_1 - 1 \cdot C_2$$

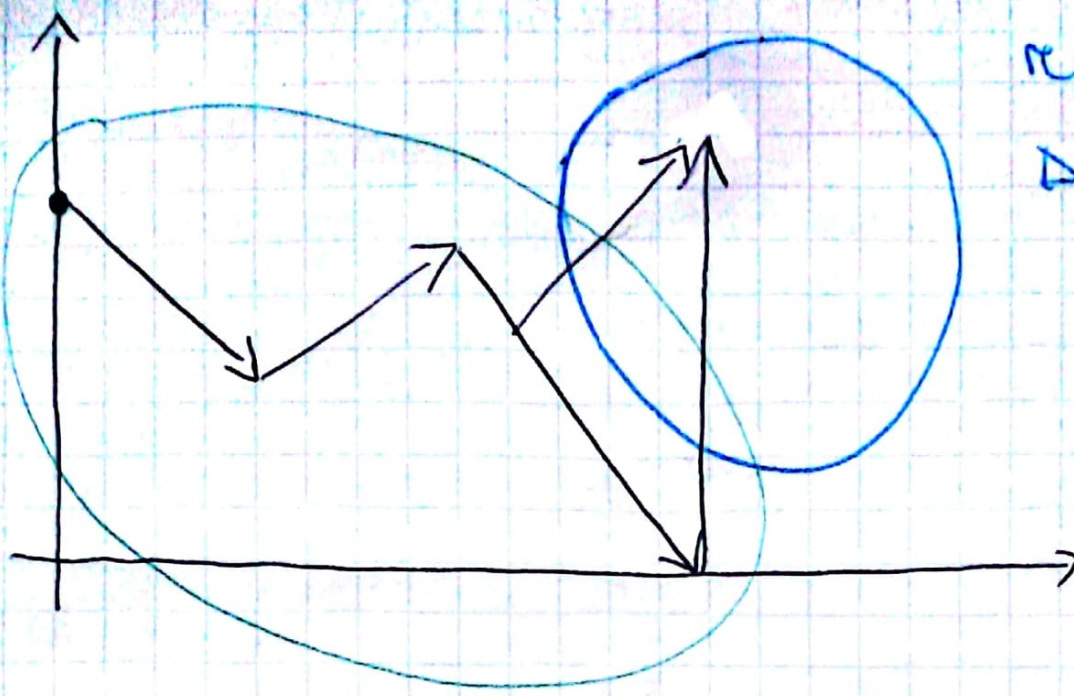
$$N = 3(6-1) - 2 \cdot 7 = 15 - 14 = 1$$

• Sclta di  $\bar{q}$

Coordinate generalizzate

predulato estradato che guida in  
movellismo di spinto



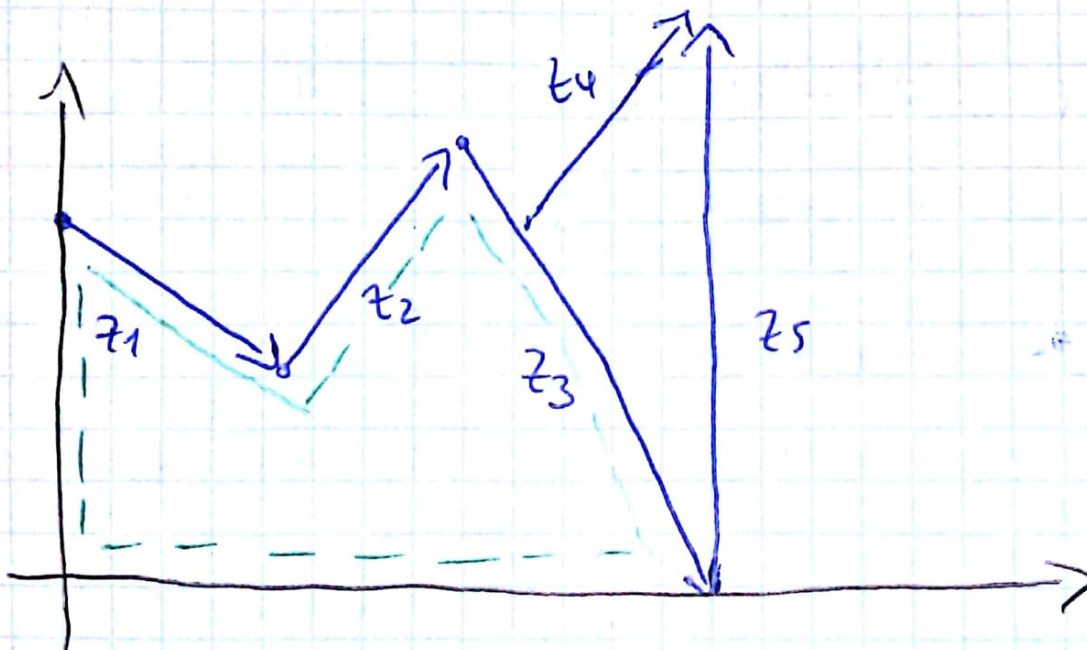


MANOVELLINO  
DI SPINTA

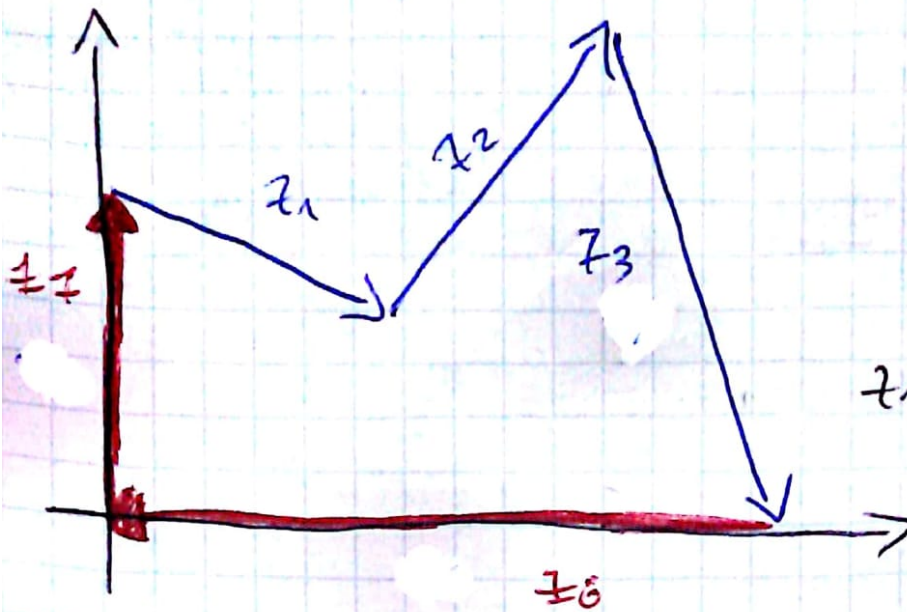
QUADRILATERO

ARTICOLATO

I punti mobili possono essere spostati  
per chiudere la catena di chiusura

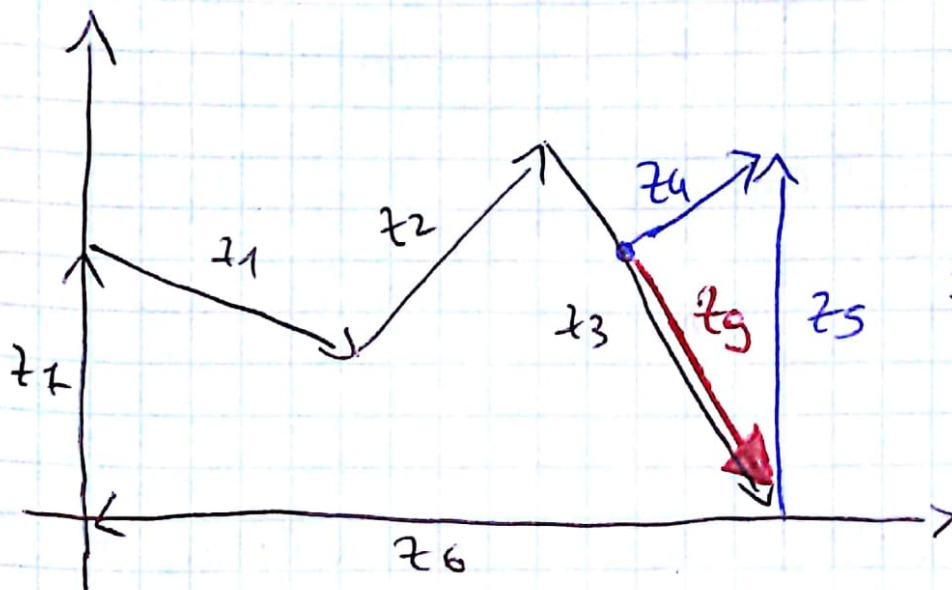


• prima ep. di chiusura



$$z_1 + z_2 + z_3 + z_4 + z_5 = 0$$

• seconda ep. di chiusura



$$z_4 - z_5 - z_6 = 0$$

• ep. di chiusura

$$\begin{cases} z_1 + z_2 + z_3 + z_4 + z_5 = 0 \\ z_4 - z_5 - z_6 = 0 \end{cases}$$



Allora:

$$\bar{p} = a_5$$

$$\bar{K} = a_1 \ a_2 \ a_3 \ a_4 \ a_5 \ a_6 \ a_6 \ a_7 \ a_7 \ a_9$$

$$\bar{\varphi} = a_1 \ a_2 \ a_3 \ a_4 \ a_8 = a_3$$

• eq. differenziali

$$a_1 \begin{Bmatrix} c_1 \\ s_1 \end{Bmatrix} + a_2 \begin{Bmatrix} c_2 \\ s_2 \end{Bmatrix} + \dots = 0$$

$$a_4 \begin{Bmatrix} c_4 \\ s_4 \end{Bmatrix} - a_5 \begin{Bmatrix} c_5 \\ s_5 \end{Bmatrix} - a_9 \begin{Bmatrix} c_9 \\ s_9 \end{Bmatrix} = 0$$

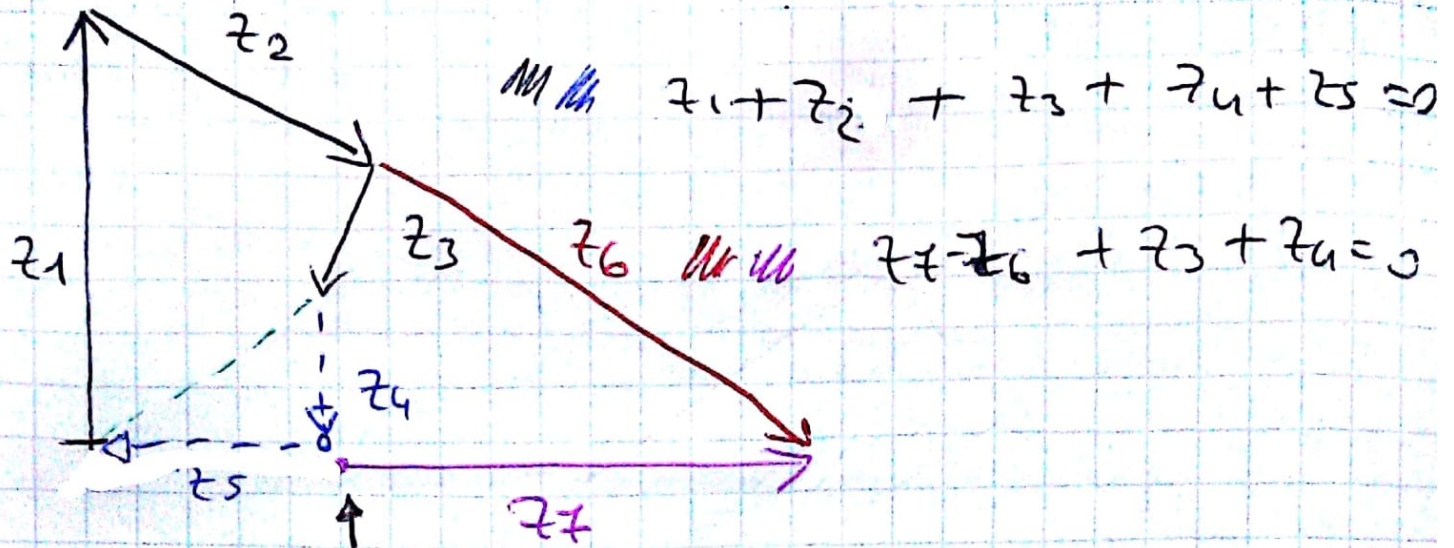
(glifi, menesellismo, produttori e  
the cerniere)





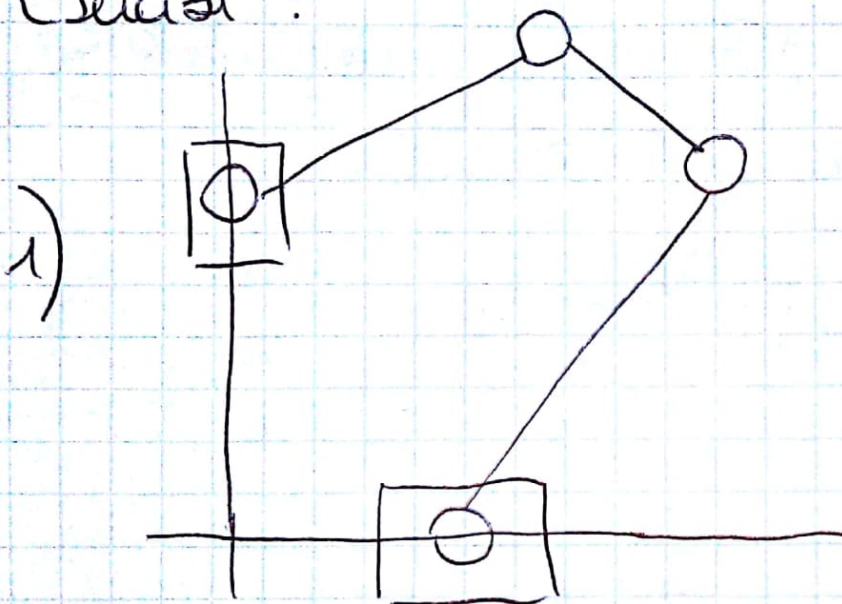


Si schematizziamo i due movimenti  
di spinta:



2 parte la qui  
per scrivere l'eq. di chiusura

Esempi:





2)

