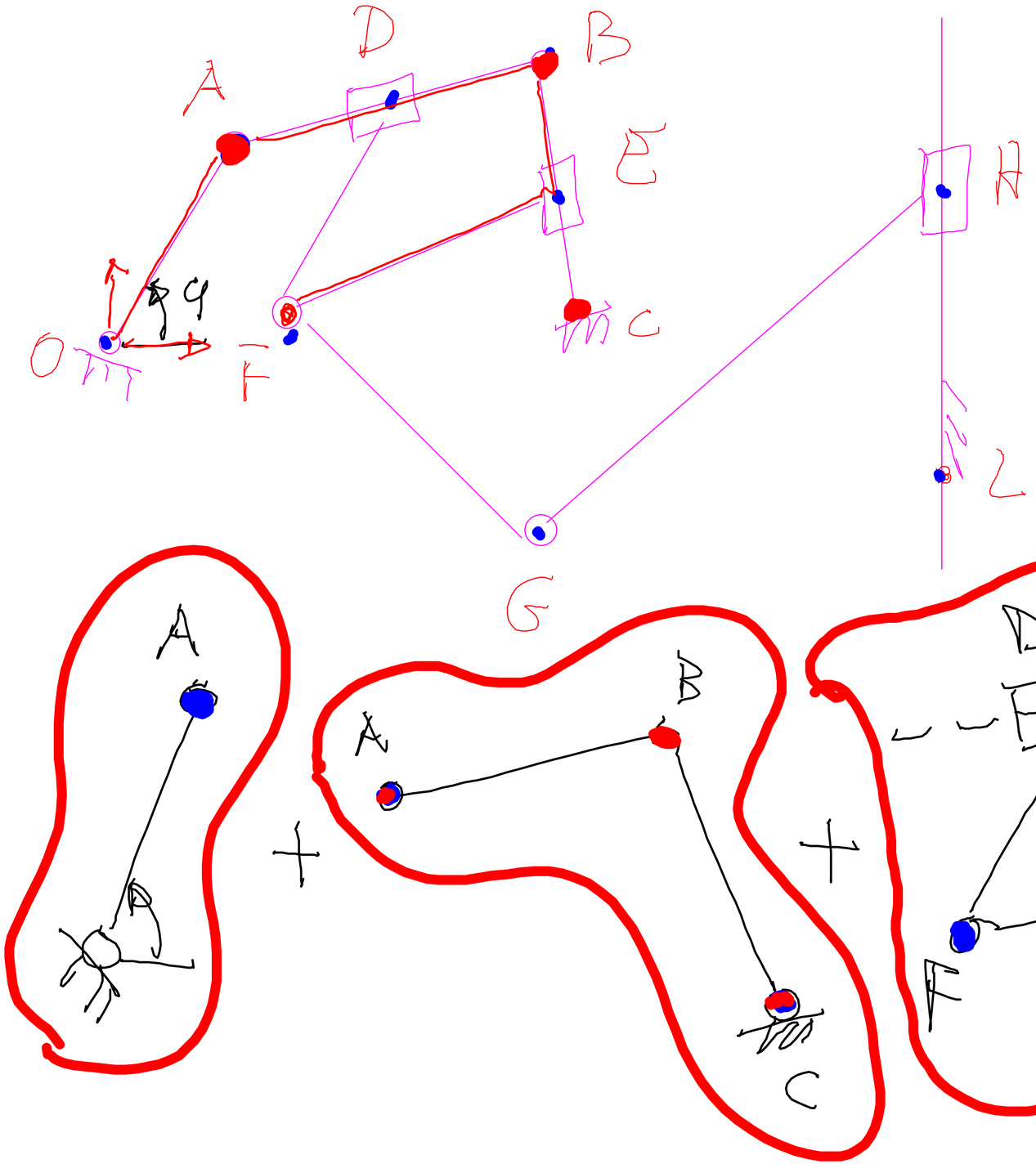
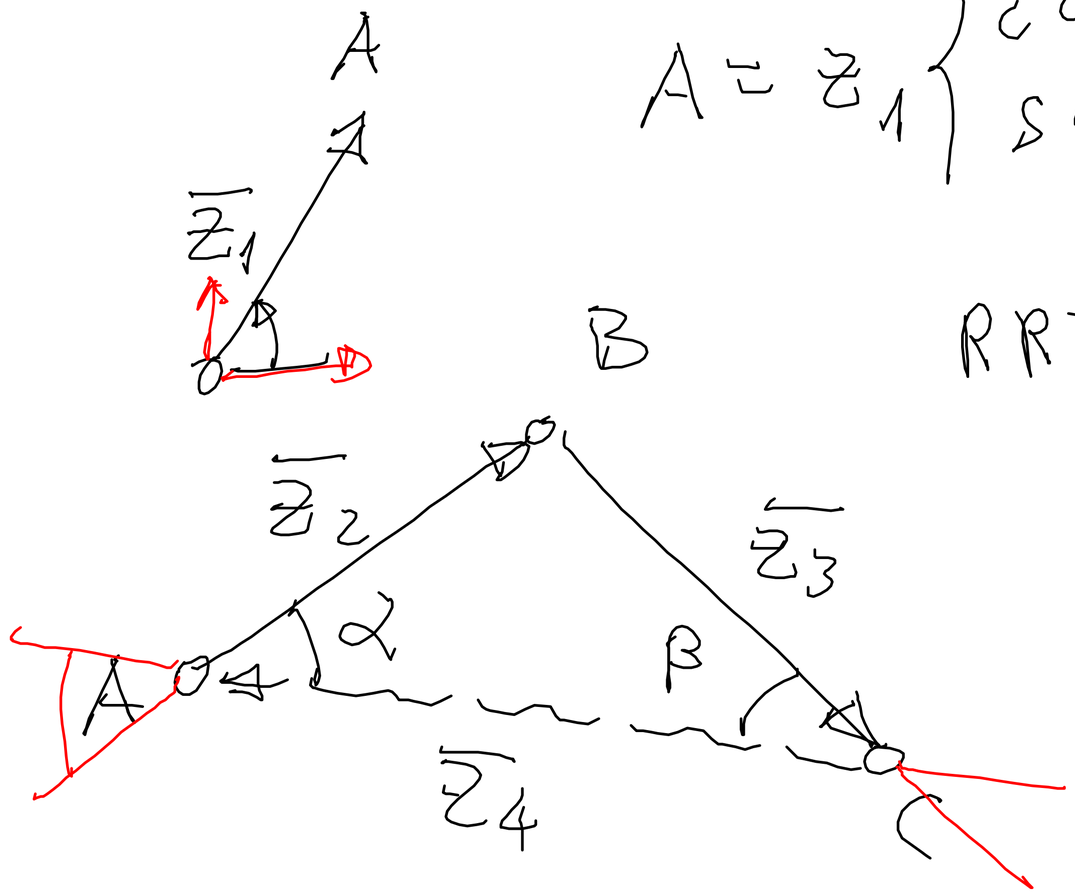


Grubler

$$3(8-1)-2\cdot 10=1$$



$$A = z_1 \begin{Bmatrix} c\varphi \\ s\varphi \end{Bmatrix}$$

RRR

$$z_4 = \|A - C\|$$

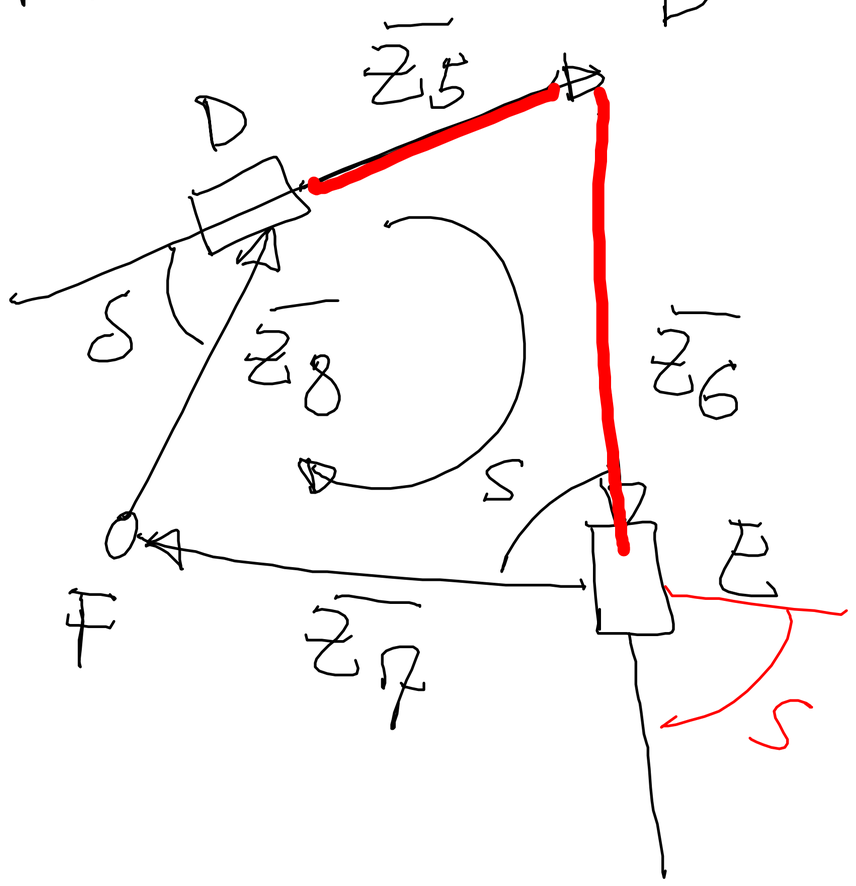
$$\varphi_4 = \text{atan2}(*, *)$$

- cos⁻¹ $\Rightarrow \alpha, \alpha$

$$\varphi_2 = \varphi_4 - \bar{\pi} + \alpha$$

$$\varphi_3 = \varphi_4 - \bar{\pi} - \beta$$

PRP



$$\bar{z}_5 + \bar{z}_6 + \bar{z}_7 + \bar{z}_8 = 0$$

$\rightarrow$ z_5, z_6

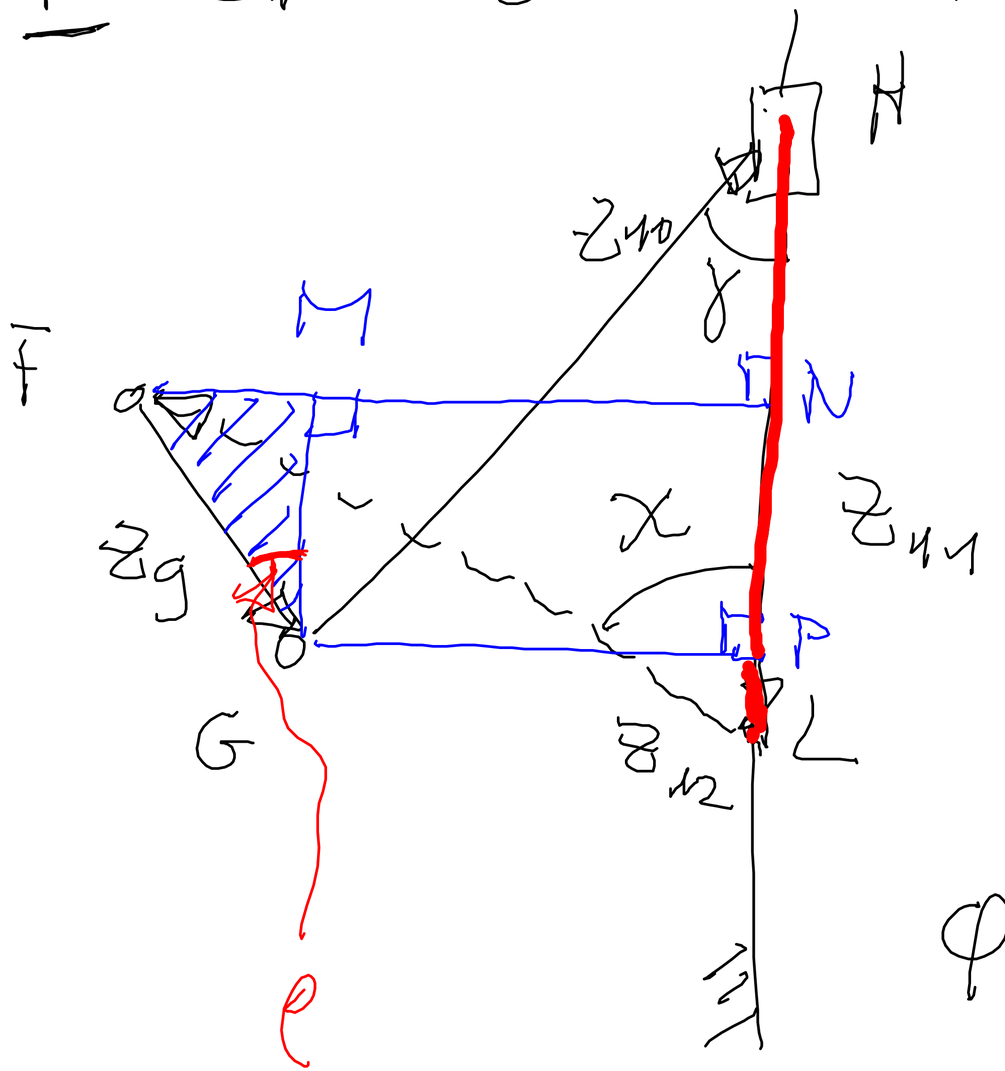
$$\varphi_5 = \varphi_2$$

$$\varphi_6 = \varphi_3$$

$$\varphi_7 = \varphi_6 + \bar{n} + s$$

$$\varphi_8 = \varphi_5 + \delta$$

$$\overline{F} = \overline{Z}_1 + \overline{Z}_2 + \overline{Z}_6 + \overline{Z}_{12}$$



Z_{11}, φ_g

$GP = Z_{10} \cdot \gamma$

~~$FN = |F| \cdot |N| \cdot \chi$~~

$FN = |\eta_F - \eta_N|$

$\chi = \operatorname{atan}\left(\frac{|\eta_F - \eta_L|}{|\chi_F - \chi_L|}\right)$

$\ell = \operatorname{asin}\left(\frac{FN - GP}{Z_g}\right)$

$\varphi_g = \frac{3}{2}\pi + \ell$

$Z_{11} = Z_{10} \cdot \gamma + Z_{12} \cdot \chi - Z_g \cdot \ell$