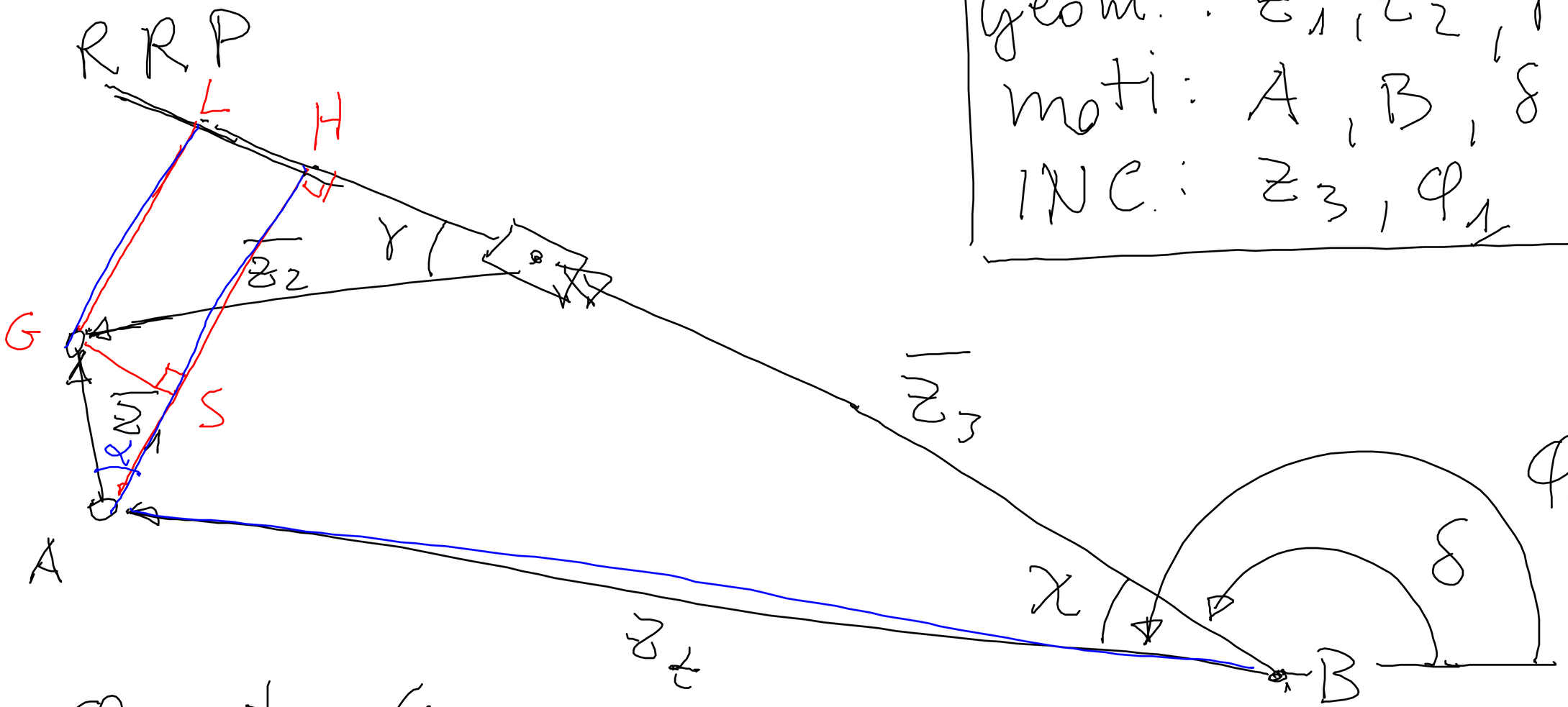
Geom.: z_1, z_2, γ

moti: A, B, δ

INC: z_3, φ_1



$$\varphi_t = \operatorname{atan2}\left((y_A - y_B), (x_A - x_B)\right) \qquad \chi = \varphi_t - \delta$$

$$AH = z_t \sin\chi \qquad LG = z_2 \sin\gamma \qquad \alpha = \arccos\left(\frac{AH - LG}{z_1}\right)$$

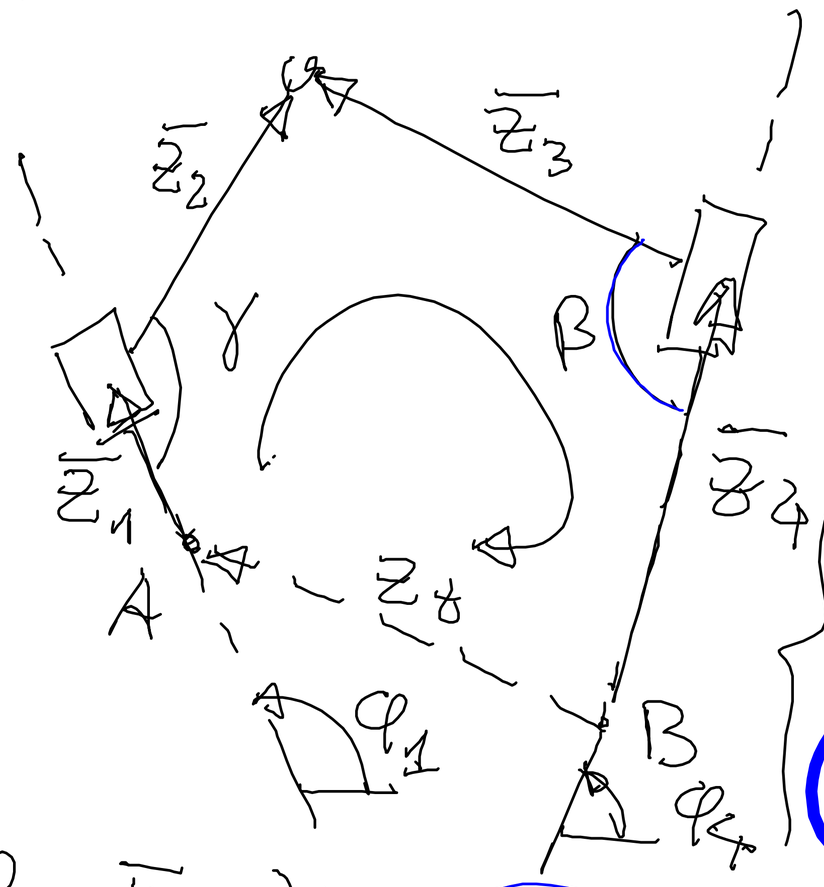
$$\varphi_1 = \delta - \frac{\pi}{2} + \alpha$$

$$LB = AB - LH$$

$Z_6 \subset X$ $\quad$ $Z_4 \ni \alpha$

$$Z_3 = LB - Z_2 \subset Y$$

PRP



Geom.: z_2, z_3, γ, β

moti: $A, B, \varphi_1, \varphi_4$

Inc: z_1, z_4

$$\bar{z}_1 + \bar{z}_2 - \bar{z}_3 - \bar{z}_4 + \bar{z}_6 = 0$$

$$\begin{cases} z_1 c\varphi_1 + z_2 c\varphi_2 - z_3 c\varphi_3 - z_4 c\varphi_4 + z_6 c\varphi_6 = 0 \\ z_1 s\varphi_1 + z_2 s\varphi_2 - z_3 s\varphi_3 - z_4 s\varphi_4 + z_6 s\varphi_6 = 0 \end{cases}$$

$$\varphi_2 = \varphi_1 - \pi + \gamma$$

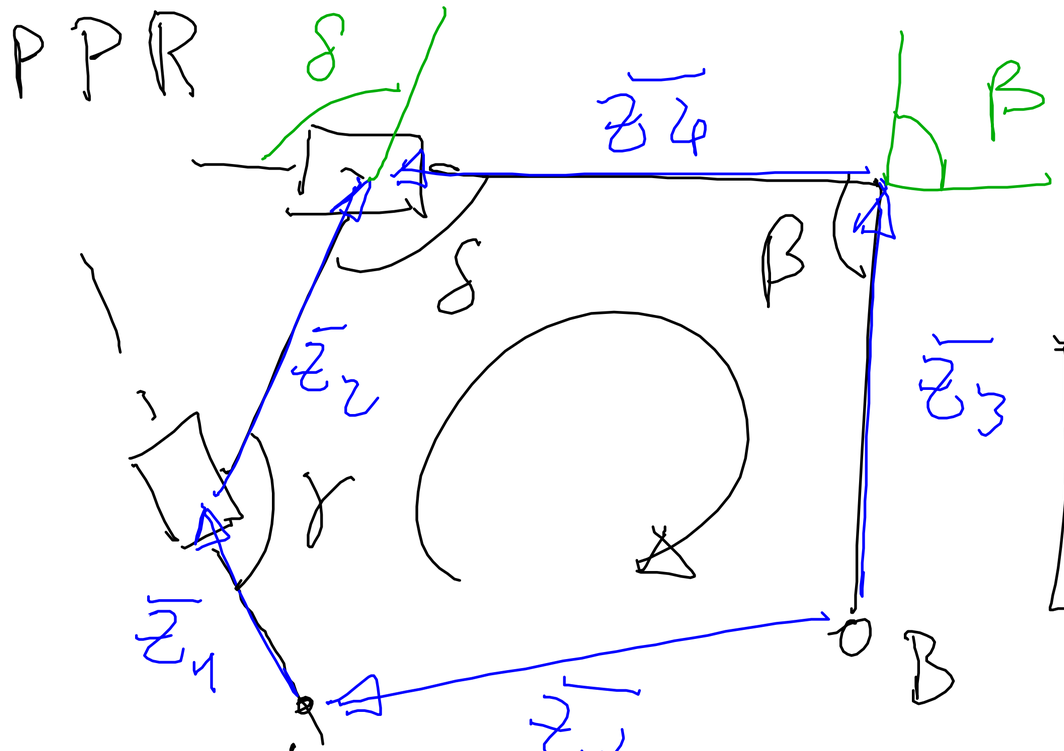
$$\varphi_3 = \varphi_4 + \pi - \beta$$

$$\begin{bmatrix} c\varphi_1 & -c\varphi_4 \\ s\varphi_1 & -s\varphi_4 \end{bmatrix} \begin{Bmatrix} z_1 \\ z_4 \end{Bmatrix} = \begin{Bmatrix} d_1 \\ d_2 \end{Bmatrix}$$

$$\begin{Bmatrix} d_1 \\ d_2 \end{Bmatrix} = \begin{Bmatrix} -z_2 c\varphi_2 + z_3 c\varphi_3 - z_6 c\varphi_6 \\ -z_2 s\varphi_2 + z_3 s\varphi_3 - z_6 s\varphi_6 \end{Bmatrix}$$

$$\begin{Bmatrix} z_1 \\ z_2 \end{Bmatrix} = \dots$$

PPR



Geom : $z_2, z_3, \gamma, \delta, \beta$

moti : B, A, φ_1

INC : z_1, z_4

$$\begin{bmatrix} c\varphi_1 & -c\varphi_4 \\ s\varphi_1 & -s\varphi_4 \end{bmatrix} \begin{Bmatrix} z_1 \\ z_4 \end{Bmatrix} = \begin{Bmatrix} d_1 \\ d_2 \end{Bmatrix}$$

$$\bar{z}_1 + \bar{z}_2 - \bar{z}_4 - \bar{z}_3 + \bar{z}_1 = 0$$

$$\begin{cases} z_1 c\varphi_1 + z_2 c\varphi_2 - z_4 c\varphi_4 - z_3 c\varphi_3 + z_1 c\varphi_1 = 0 \\ z_1 s\varphi_1 + z_2 s\varphi_2 - z_4 s\varphi_4 - z_3 s\varphi_3 + z_1 s\varphi_1 = 0 \end{cases}$$

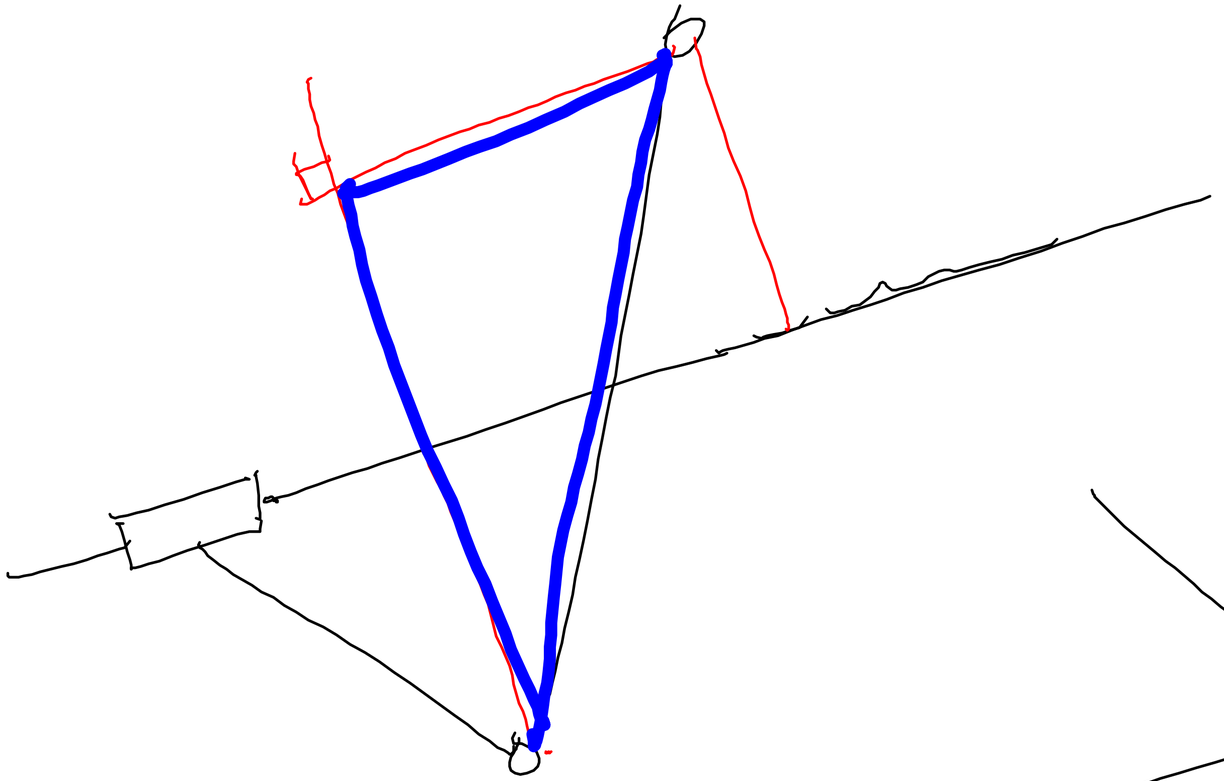
d_1

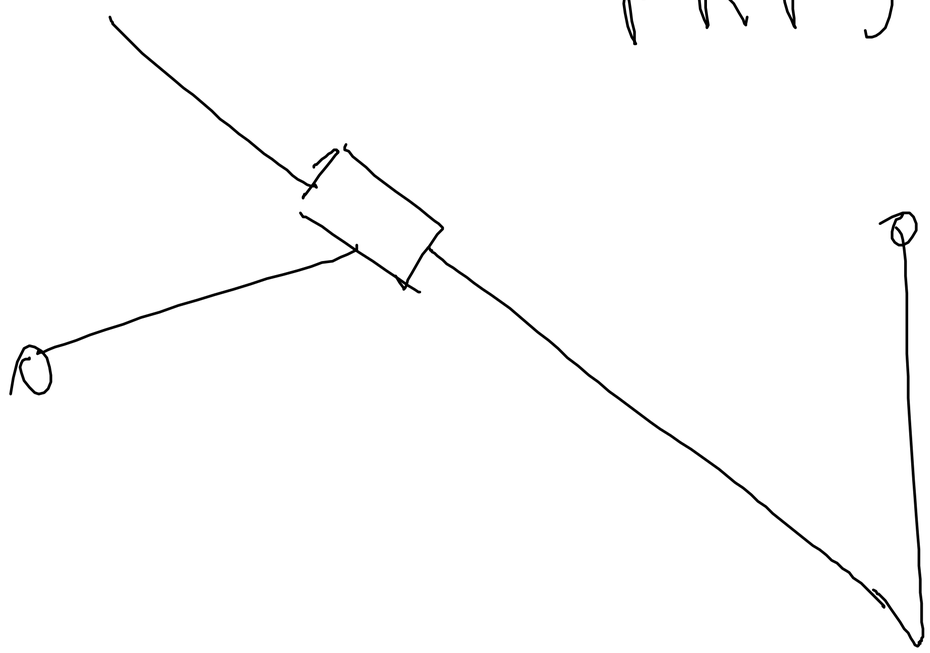
d_2

$$\varphi_2 = \varphi_1 - \bar{\Pi} + \gamma$$

$$\varphi_4 = \varphi_2 + \delta$$

$$\varphi_3 = \varphi_4 - \bar{\Pi} + \beta$$





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