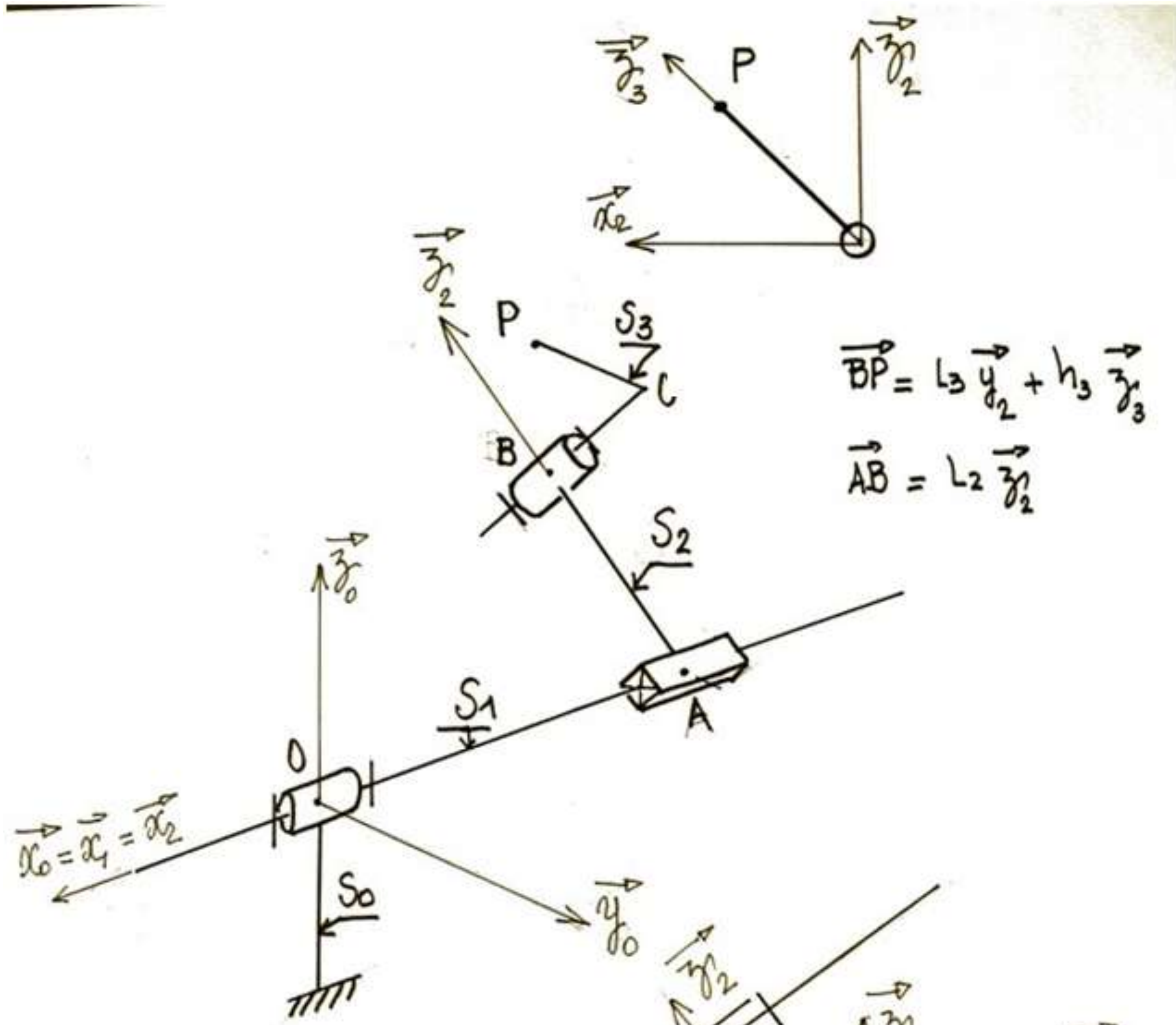
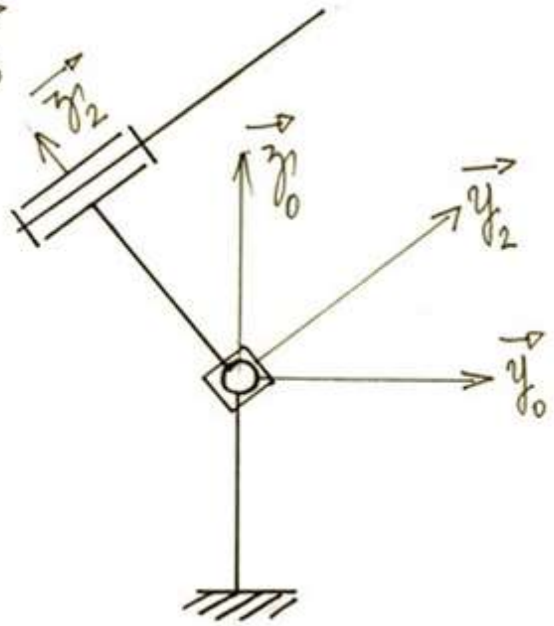


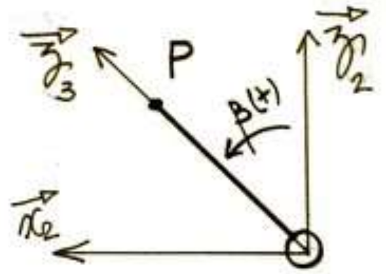


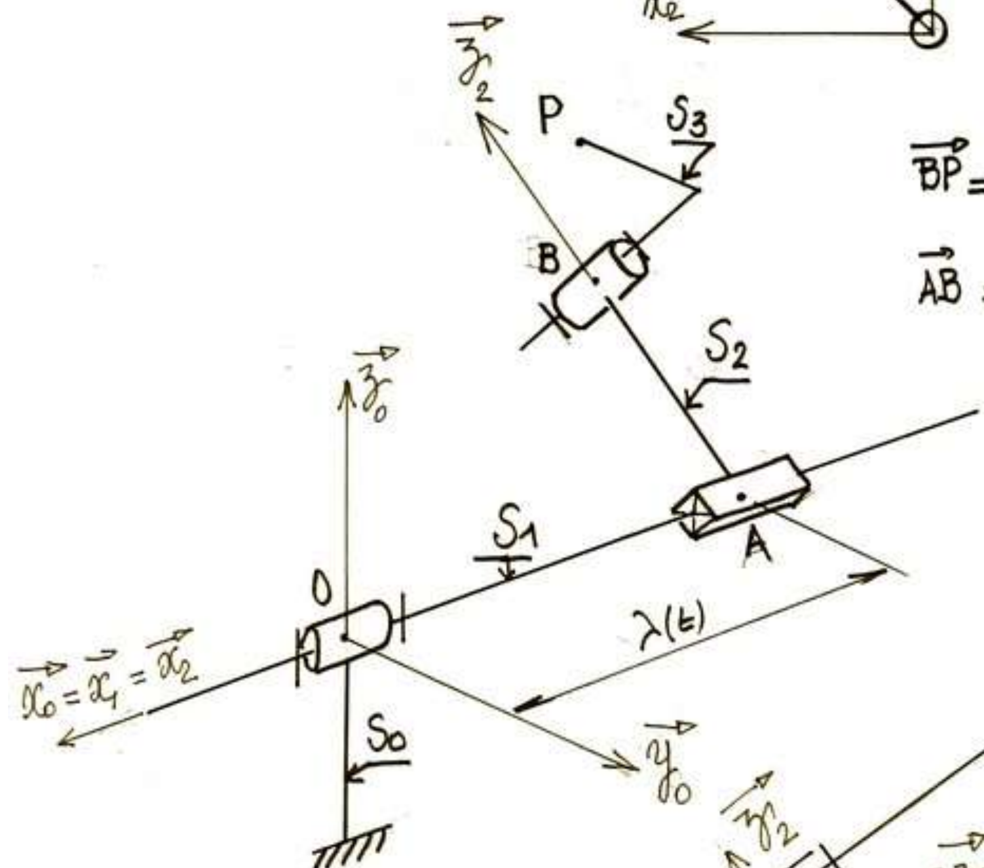
Le système étant décrit de façon schématique :

Paramétrer

Calculer les vitesses de A, B, P dans leur mouvement par rapport à 0

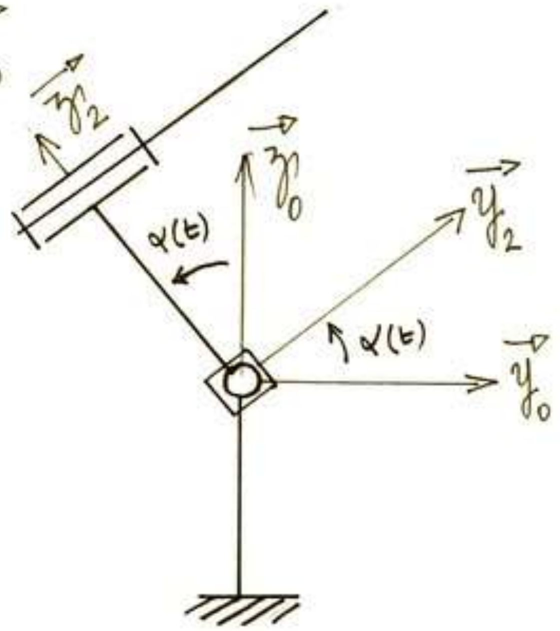
Calculer l'accélération de B et C dans leur mouvement par rapport à 0





$$\vec{BP} = L_3\,\vec{y}_2 + h_3\,\vec{z}_3$$

$$\vec{AB} = L_2\,\vec{z}_2$$



$$\overrightarrow{V_{A/0}} = -\dot{\lambda}(t)\,\vec{x}_0$$

$$\overrightarrow{V_{B/0}} = -\dot{\lambda}(t)\,\vec{x}_0 - L_2\,\dot{\alpha}(t)\,\vec{y}_2$$

$$\overrightarrow{V_{P3/0}} = \overrightarrow{V_{B3/0}} + \overrightarrow{PB} \wedge \overrightarrow{\Omega_{3/0}}$$

$$= -\dot{\lambda}\,\vec{x}_0 - L_2\,\dot{\alpha}\,\vec{y}_2 + (-L_3\,\vec{y}_2 - h_3\,\vec{z}_3) \wedge (\dot{\alpha}\,\vec{x}_0 + \dot{\beta}\,\vec{y}_2)$$

$$= -\dot{\lambda}\,\vec{x}_0 - L_2\,\dot{\alpha}\,\vec{y}_2 + L_3\dot{\alpha}\,\vec{z}_2 - h_3\,\dot{\alpha}\cos\beta\,\vec{y}_2$$

$$+ h_3\,\dot{\beta}\,\vec{x}_3$$

$$V_{P\in 3/0} = -\dot{\lambda}\,x_0 - L_2\dot{\alpha}\,\vec{y}_2 - h_3\dot{\alpha}\cos\beta\,\vec{y}_2 + h_3\dot{\beta}\,\vec{x}_3 + L_3\dot{\alpha}\,\vec{z}_2$$

$$\overrightarrow{\Gamma_{B\in 3/0}} = -\ddot{\lambda}(t)\,\vec{x}_0 - L_2\,\ddot{\alpha}(t)\,\vec{y}_2 - L_2\,\dot{\alpha}^2\,\vec{z}_2$$

$$\left\{\mathcal{V}_{S2/0}\right\} = \left\{\dot{\alpha}\,\vec{x}_1\ ;\ -\dot{\lambda}(t)\,\vec{x}_0 - L_2\,\dot{\alpha}(t)\,\vec{y}_2\right\}_B.$$

axe central : $O\vec{x}$ car $\overrightarrow{V_{A\in 2/0}} \wedge \overrightarrow{\Omega_{2/0}} = \vec{0}$.