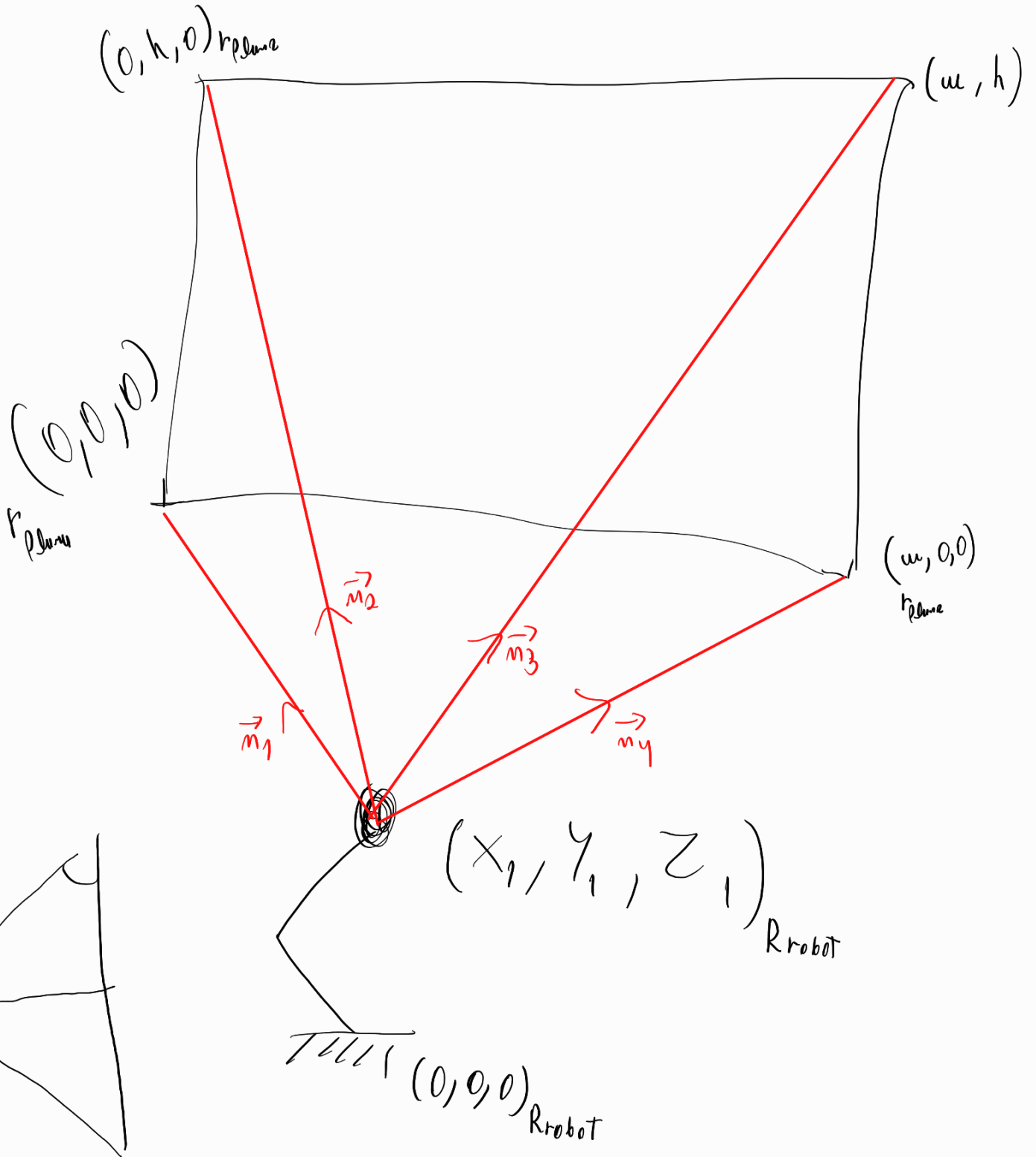
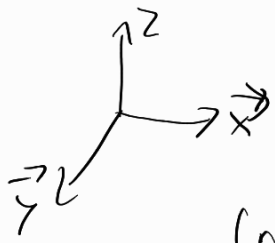
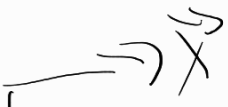
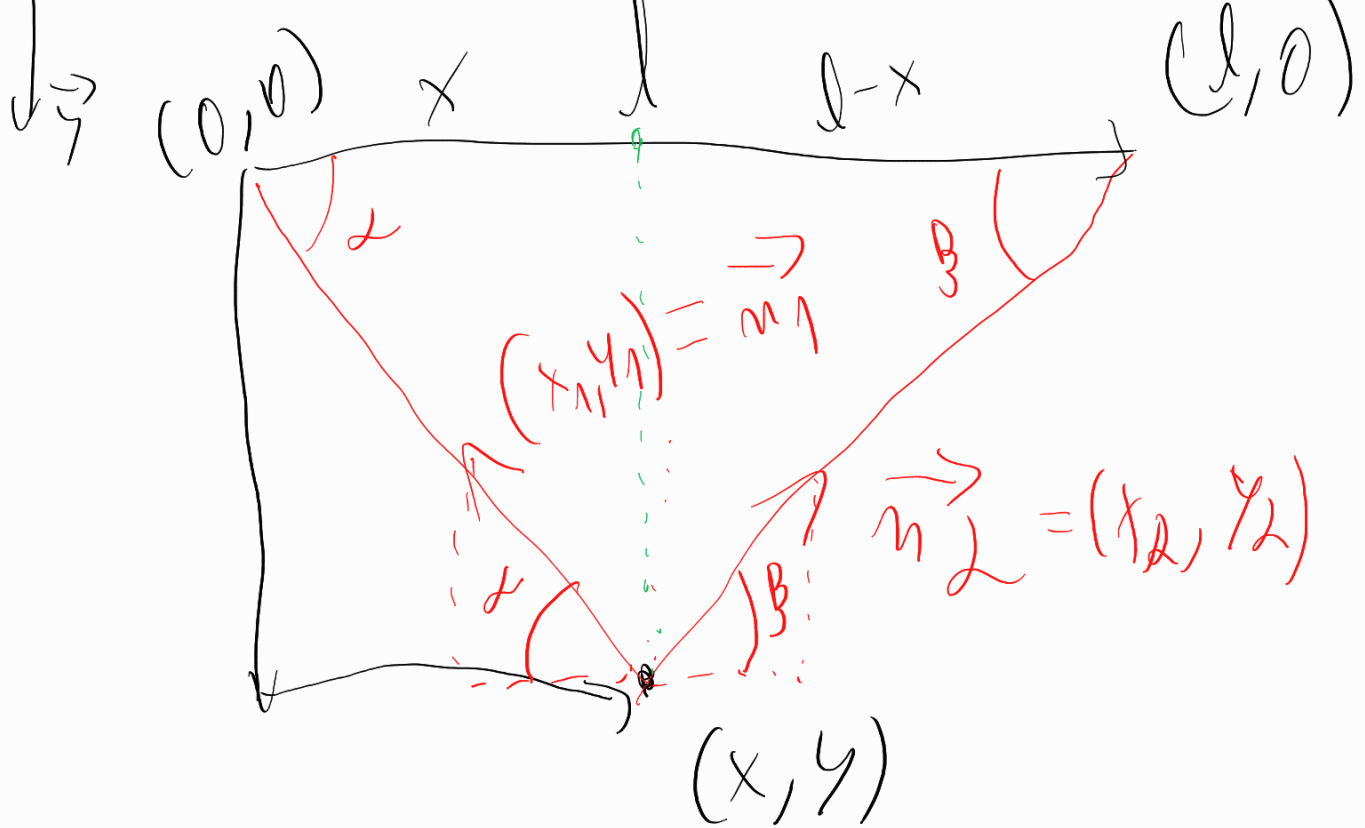


Calculer Coordonnées



Simplification 2D





$$\sin \alpha \cdot x = \sin \beta \cdot (1-x)$$

$$y = \cos \alpha \cdot x = \cos \beta \cdot (1-x)$$

$$P_1 = (0,1)$$

$$P_2 = (1,1)$$

$$P_p = (x,y)$$

$$\vec{n}_1 = \frac{\overrightarrow{P_1 - P_p}}{\|P_1 - P_p\|}$$

$$\vec{n}_2 = \frac{\overrightarrow{-P_p}}{\sqrt{x^2 + y^2}}$$

$$\vec{n}_2 = \frac{(p_2 - p_0)}{\|p_2 - p_0\|} \quad \vec{n}_2 = \frac{-(x-l, y)}{\sqrt{(x-l)^2 + y^2}}$$

n_{1x} n_{2y}

$$\vec{n}_1 \cdot \sqrt{x^2 + y^2} = -x$$

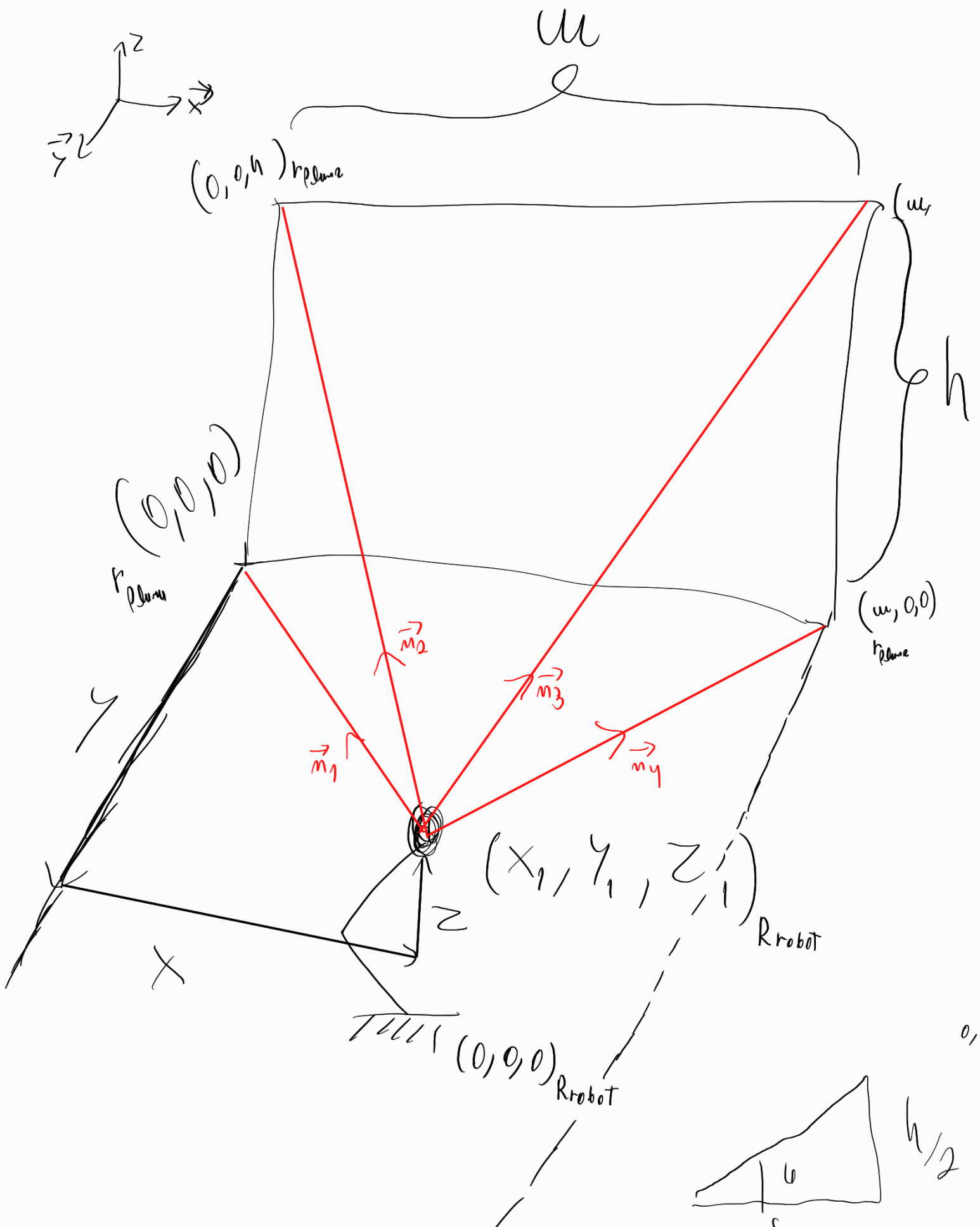
$$\vec{n}_2 \cdot \sqrt{(x-l)^2 + y^2} = -(x-l)$$

(hoix des Eq.

$$\begin{cases} n_{1y} \cdot \sqrt{x^2 + y^2} = -y \\ n_{2x} \cdot \sqrt{(x-l)^2 + y^2} = l = -x \end{cases}$$

cos 3D

f solve()



$$P_1 = (0, 0, 0) \quad P_3 = (w, 0, h)$$

$$P_2 = (0, 0, h) \quad P_4 = (w, 0, 0)$$

$$P = (x, y, z)$$

$$\vec{n}_1 = \frac{\overrightarrow{(P_1 - P)}}{\|P_1 - P\|}$$

$$\vec{n}_1 = \frac{-\overrightarrow{(x, y, z)}}{\sqrt{x^2 + y^2 + z^2}}$$

$$\vec{n}_2 = \frac{\overrightarrow{(P_2 - P)}}{\|P_2 - P\|}$$

$$\vec{n}_2 = \frac{-\overrightarrow{(x, y, z - h)}}{\sqrt{x^2 + y^2 + (z - h)^2}}$$

$$\vec{n}_3 = \frac{\overrightarrow{(P_3 - P)}}{\|P_3 - P\|}$$

$$\vec{n}_3 = \frac{-\overrightarrow{(x - w, y, z - h)}}{\sqrt{(x - w)^2 + y^2 + (z - h)^2}}$$

$$\vec{n}_4 = \frac{\overrightarrow{(P_4 - P)}}{\|P_4 - P\|}$$

$$\vec{n}_4 = \frac{-\overrightarrow{(x - w, y, z)}}{\sqrt{(x - w)^2 + y^2 + z^2}}$$

$$\|P_q - P_p\|$$

$$\sqrt{(x-w)^2 + y^2 + z^2}$$

$$\begin{cases} \vec{n}_1 \cdot \|P_1 - P_p\| + (x, y, z) = 0 \\ \vec{n}_2 \cdot \|P_2 - P_p\| + (x, y, z - h) = 0 \\ \vec{n}_3 \cdot \|P_3 - P_p\| + (x - w, y, z - h) = 0 \\ \vec{n}_4 \cdot \|P_4 - P_p\| + (x - w, y, z) = 0 \end{cases}$$

Choix des eq.

$$\begin{cases} n_1 y \cdot \sqrt{x^2 + y^2 + z^2} + y = 0 \\ n_2 z \cdot \sqrt{x^2 + y^2 + (z - h)^2} + z - h = 0 \\ n_3 x \cdot \sqrt{(x - w)^2 + y^2 + (z - h)^2} + x - w = 0 \end{cases}$$

for the

curve()

