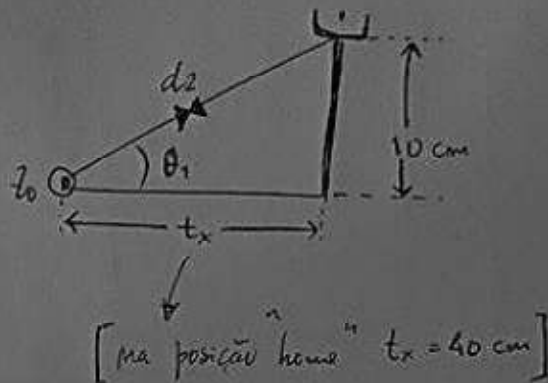
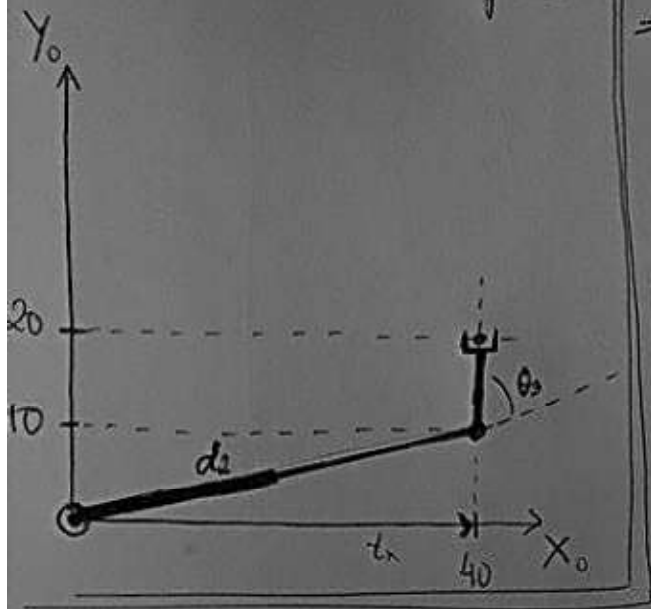


Cinemática Inversa - modelo geométrico

θ_1 :



$$\theta_1 = \tan^{-1} \left(\frac{\text{cat. oposto}}{\text{cat. adjacente}} \right)$$

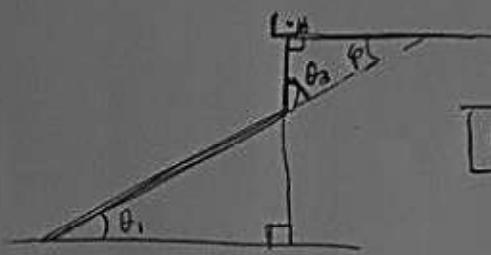
$$\Rightarrow \theta_1 = \tan^{-1} \left(\frac{10}{t_x} \right);$$

d_2 :

$$d_2^2 = 10^2 + t_x^2$$

$$\Rightarrow d_2 = \sqrt{10^2 + t_x^2};$$

θ_3 :



$$\varphi = \theta_1$$

$$\theta_3 = 180^\circ - \varphi - 90^\circ$$

$$\Rightarrow \theta_3 = 180^\circ - 90^\circ - \theta_1$$

$$\Rightarrow \theta_3 = 90^\circ - \theta_1 = \pi/2 - \theta_1;$$