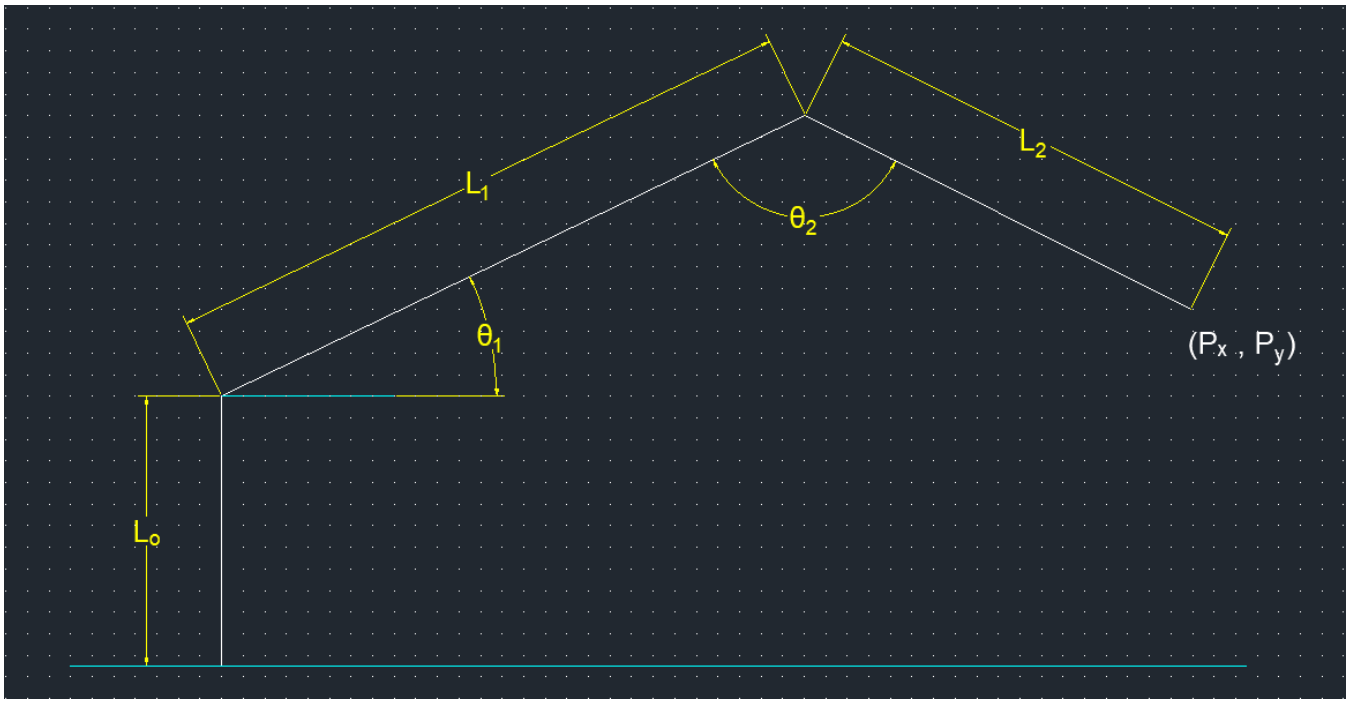

Position of end effector $P(P_x, P_y) = L_0 + L_1 + L_2$

$P_x = L_1.\cos\theta_1 + L_2.\cos(pi - (\theta_1 + \theta_2))$

$= L_1.\cos\theta_1 - L_2.\cos(\theta_1 + \theta_2)$

$P_y = L_0 + L1.\sin\theta_1 - L_2.\sin(pi - (\theta_1 + \theta_2))$

$= L_0 + L_1.\sin\theta_1 - L_2.\sin(\theta_1 + \theta_2)$

$L_0 = 12.5$ cm

$L_1 = 30$ cm

$L_2 = 20$ cm