



$$\theta_2 = \cos^{-1} \left( \frac{p_z^2 + p_x^2 - l_1^2 - l_2^2}{2l_1l_2} \right)$$

$$\theta_1 = \frac{-p_z l_2 \sin(\theta_2) + p_x (l_1 + l_2 \cos(\theta_2))}{p_x l_2 \sin(\theta_2) + p_z (l_1 + l_2 \cos(\theta_2))}$$