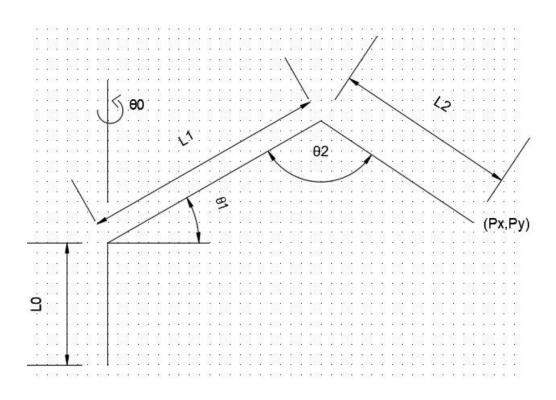
Mechanical Arm Forward Kinematic



Position of End Effector= L₀+L₁+L₂

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

 $P_x = L_1 cos[\theta_1] - L_2 cos[\theta_1 + \theta_2]$

 $P_y = L_0 + L_1 sin[\theta_1] - L_2 sin [\pi - (\theta_1 + \theta_2)]$

 $P_y = L_0 + L_1 \sin[\theta_1] - L_2 \sin[\theta_1 + \theta_2]$

 $L_0 = 280 \text{ mm}$ $-90^{\circ} < \theta_0 < 90^{\circ}$

 $L_2 = 337.515 \text{ mm}$ $5.2^{\circ} < \theta_2 < 165.2^{\circ}$