## MMC HW6

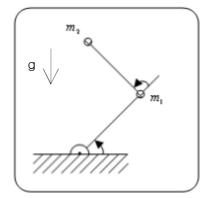
Do the following Problems about a manipulator shown in Text Book Fig. 6.6.

real parameter  $m_1=5{\rm kg}\,,\ m_2=3{\rm kg}\,,\ l_1=l_2=0.5m$ 

Static Initial Position  $\left(\theta_1\,,\,\theta_2\right) = \left(15^\circ\,,\,15^\circ\right)$ 

Static Final Position  $(x , y) = \left(-\frac{3}{4}, \frac{\sqrt{3}}{4}\right)$ 

Time elapsed 1 sec



- 1. 1) Set up joint cubic trajectory planning.
  - 2) Find Torque Trajectory for the obtained trajectory.
  - 3) Apply the obtained toruge trajectory to the robot at initial position. Check if you can get the same trajectory as you planed.
- 2. 1) Set up Cartesian trapezoidal trajectory planning for straight line from initial position to final position.
  - 2) Find Torque Trajectory for the obtained trajectory.
  - 3) Apply the obtained toruge trajectory to the robot at initial position. Check if you can get the same trajectory as you planed.