

Introduction to Robotics CPSE CPEG 460

Quiz 1

9-15-2011

Name:

ID No.:

For the two-link manipulator we have taken in the class suppose $L_1 = L_2 = 1$.

- Find the coordinates of the tool when $\theta_1 = \pi/6$ and $\theta_2 = \pi/2$
- If the joint velocities are constant at $\dot{\theta}_1 = 1$, $\dot{\theta}_2 = 2$, what is the velocity of the tool? What is the instantaneous tool velocity when $\theta_1 = \theta_2 = \pi/4$.

Hint: $\dot{X} = L \dot{\theta}$