

ME 115(a): Homework #6

(Due Friday March. 5, 2010)

Problem 1: (15 points) Find the Denavit-Hartenberg parameters for manipulators (ii) and (iv) in Figure 3.23 of the MLS text.

Problem 2: (20 points) Consider the simple manipulator (iii) associated with Prob.4 in Chapter 3 of the MLS text.

- Determine the Denavit-Hartenberg parameters of this manipulator
- Find the forward kinematics using the Denavit-Hartenberg approach.
- Find the forward kinematics using the Product-of-Exponentials approach.