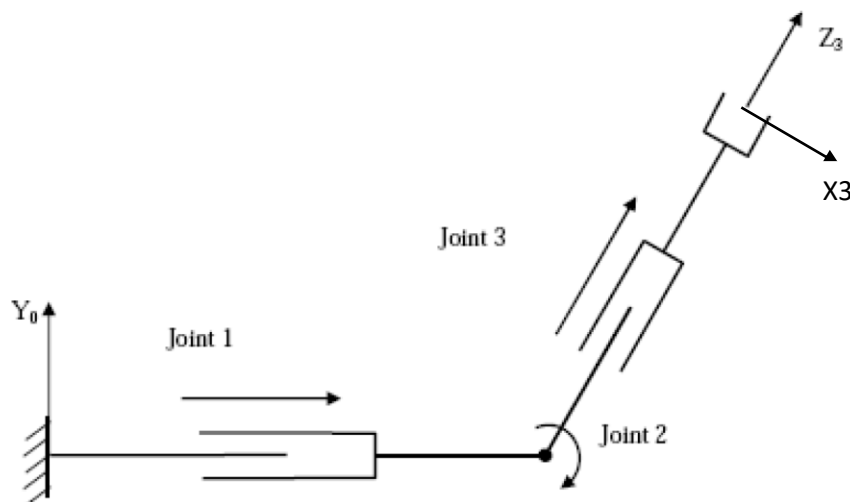


Due: 18 Oct, 2016

Dropbox #10 in JHE 307

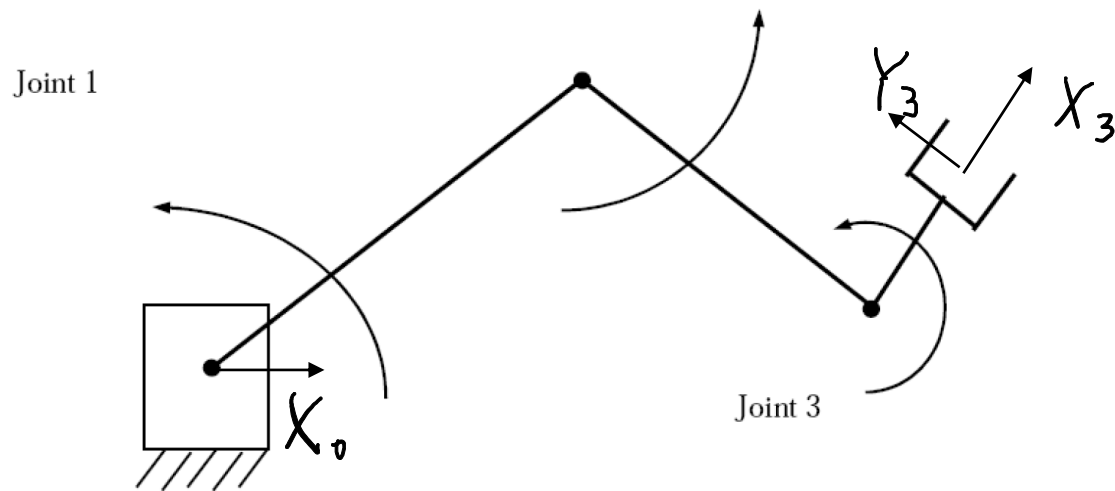
1. For the PRP planar robot shown in Figure below.

- Using the predefined Y_0 and Z_3 axes, assign the frames using the D-H method.
- Determine the D-H parameters and put them in the standard table form. Identify the joint variables.
- Draw a diagram of the robot that properly shows the D-H frames, the joint variables, and any d or a parameters that are non-zero. Your drawing should be clear and at least 75 mm X 75 mm in size.
- Calculate the A matrices and 0T_3 .



2. For the RRR robot shown in Figure below:

- Assign the frames using the D-H method.
- Determine the D-H parameters and put them in the standard table form. Identify the joint variables.
- Draw a diagram of the robot that properly shows the D-H frames, the joint variables, and any d or a parameters that are non-zero. Your drawing should be clear and at least 75 mm X 75 mm in size.
- Calculate the A matrices and 0T_3 .



3. The origins of the frames shown in Figure below lie in the plane of the page. For these frames, determine the D-H parameters and put them in the standard table form.

