

**Problem 2      (Get Started with Simscape Multibody)**

- (a) See provided Simscape solution files.
- (b) For the model to represent HDPE, the material density of the simple link has to change to about  $950 \text{ kg/m}^3$ . See provided Simscape solution file. With no torque input or damping, the equations of motion do not depend on the mass of the link and, hence, the motion does not change.
- (c) See provided Simscape solution file.