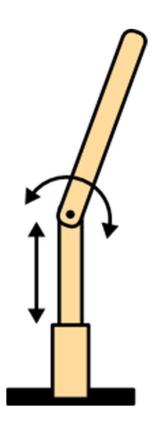


- 1) Derive the coordinate transform between A and B from the figure.
- 2) Compute the coordinates of P in frame A and B.
- 3) What is your favorite rotation representation (matrix, quaternion, Euler angles, ...) and reasons why or tradeoffs (memory efficient, easy normalization, human-readable, intuitive, easy computations, ...)?



1) Describe the position of the tip as a function of joint positions.
2) Derive 'forward differential kinematics', velocity of tip as a function of joint velocities.

3) Suppose the joints are controlled by two motors, and you want to use them
to drive the tip to a desired position along a straight line.

4) Derive the joint torques as a function of end-effector force.