

Homework H.3.B

Given: An L-shaped telescoping arm is pinned to ground at point O . End A of the arm is constrained to move within a stationary circular slot with a constant speed of v_A . At the instant shown, the arm is oriented horizontally with end A located immediately to the left of the center C of the circular slot. A set of xyz axes are attached to section OB of the telescoping arm, with an observer also attached to this section of the arm.

Find: Determine the angular velocity and angular acceleration of the arm. Write your answers as vectors.

