

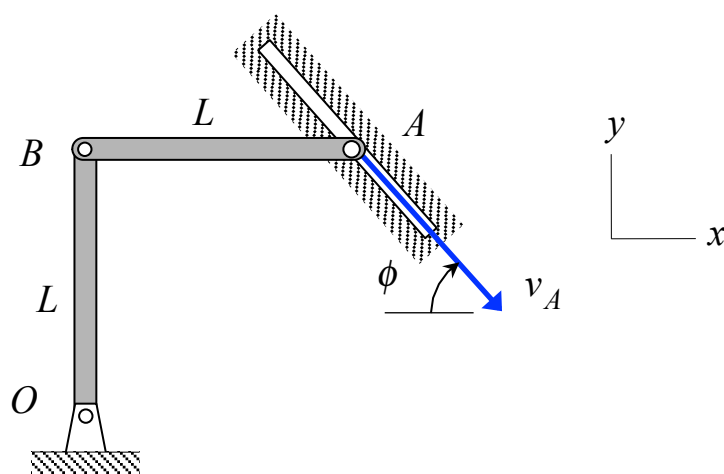
Homework 2.F

Given: A mechanism is made up of two equal-length links OB and AB. End A of AB is constrained to move along an angled slot, as shown in the figure, with a constant speed of v_A . At the position shown, link OB is vertical and link AB is horizontal.

Find: For this position:

- (a) Determine the angular velocities of links OB and AB.
- (b) Determine the angular accelerations of links OB and AB.

Write your answers as vectors.



Use the following parameters in your analysis: $L = 0.5$ m, $v_A = 10$ m/s and $\phi = 36.87^\circ$.