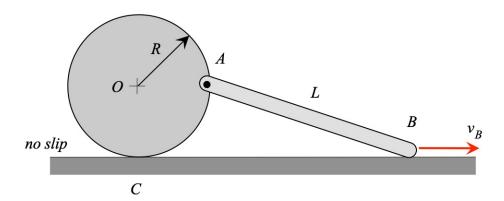
Homework H.2.F

Given: The circular disk shown rolls without slipping on a straight horizontal surface. Bar AB is pinned to point A on the disk, with end B constrained to move along a smooth horizontal surface with a constant speed v_B . At the position shown, A is directly to the right of the center O of the disk.

Find: For this position:

(a) Determine the angular velocities of link AB and of the disk. Write your answers as vectors.



Use the following parameters in your analysis: R = 6 in, L = 10 in and $v_B = 100$ in/s.

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