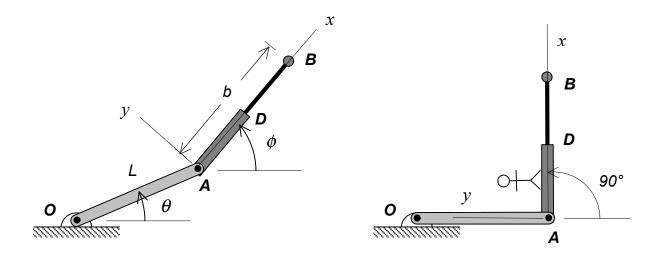
Homework H.3.A

Given: A robotic manipulator is made up of two links OA and ADB as shown in the figure below left. Link OA has a fixed length of L, and the length link ADB is changing at a constant rate of \dot{b} .

Find: For the position shown below right with $\theta = 0^{\circ}$ and $\phi = 90^{\circ}$, determine the acceleration of point B on the manipulator.



Use the following parameters in your analysis: b=3 ft, $\dot{b}=6$ ft/s = constant, $\dot{\theta}=2$ rad/s = constant, $\dot{\phi}=3$ rad/s = constant and L=4 ft.

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