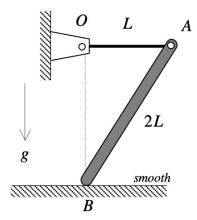
## Homework H.5.E

Given: A thin homogeneous bar OA (of negligible mass and of length L) is pinned to ground at O. The other end of the bar is pinned to a second thin homogeneous bar AB (of mass m and length 2L) at A. End B of bar AB is able to slide on a smooth, horizontal surface. At the instant of release from rest, OA is horizontal and end B of bar AB is located directly below O.

Find: Determine the angular acceleration of bar AB on release. Write your answer as a vector.



Use the following parameters in your analysis: m = 50 kg and L = 3 m.

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