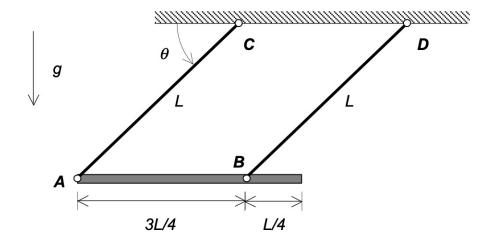
## Homework H5.A

Given: A thin, homogeneous bar of mass M is supported by parallel cables AC and BD, as shown below in the figure. The bar is released from rest with the cables at an angle of  $\theta$  measured from the horizontal.

Find: Determine the tension in cables AC and BD on release.



Use the following parameters in your analysis: M = 300 kg, L = 2.5 m and  $\theta = 30^{\circ}$ .

©Freeform 5-3