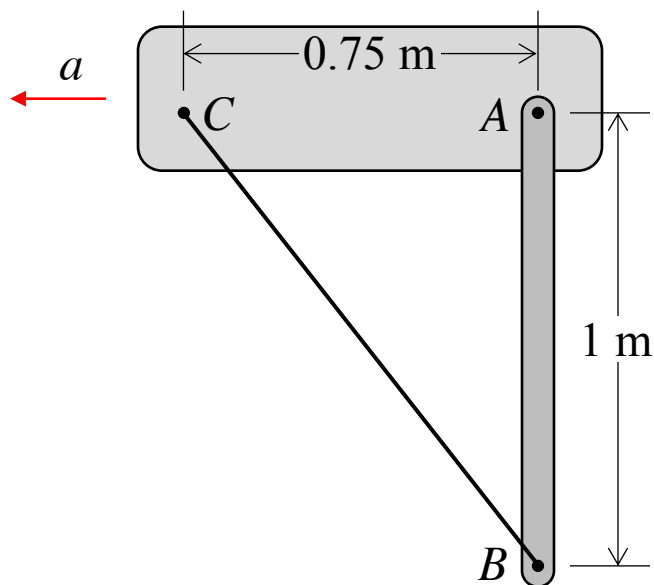**Homework H.5.B**

Given: Homogneous bar AB of mass m is supported by a base AC that is translating to the left with a constant acceleration of a. Cable AC restrains the rotation of the bar as it translates to the left.

Find:
(a) Determine the tension in the cable; and
(b) Determine the reaction force acting on bar AB at A.

Use the following parameters in your analysis: $m = 3$ kg and $a = 7$ m/s^2.