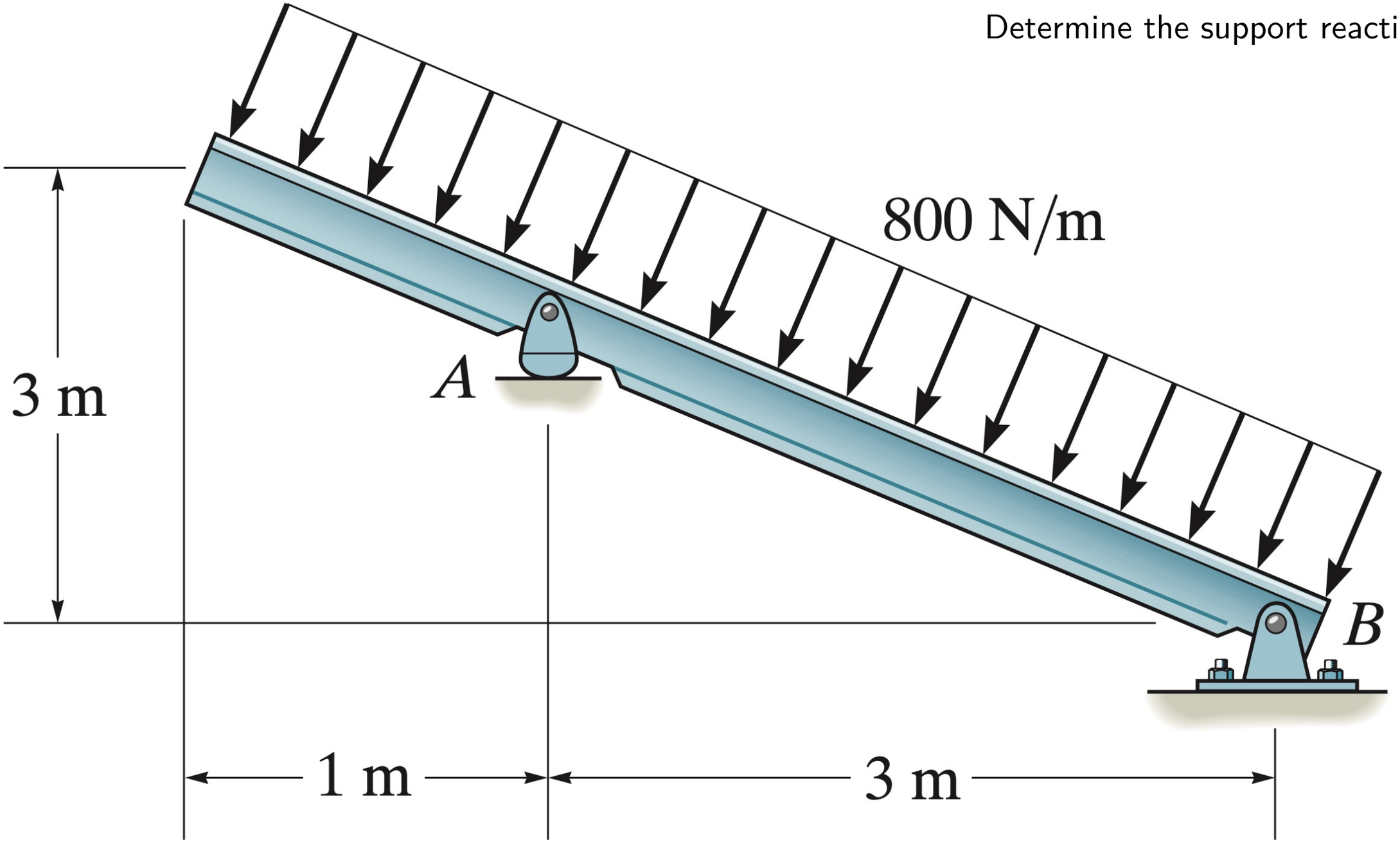
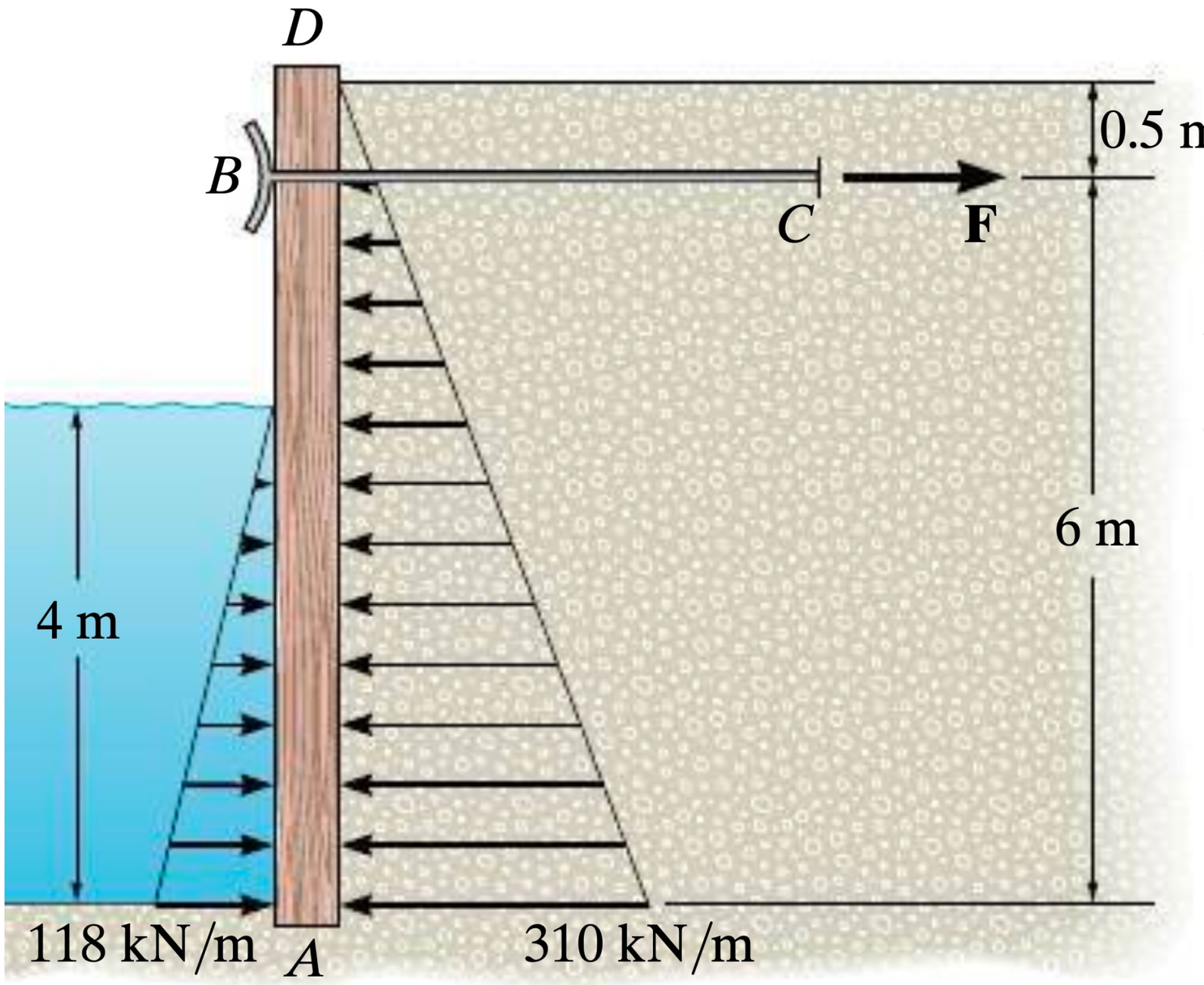
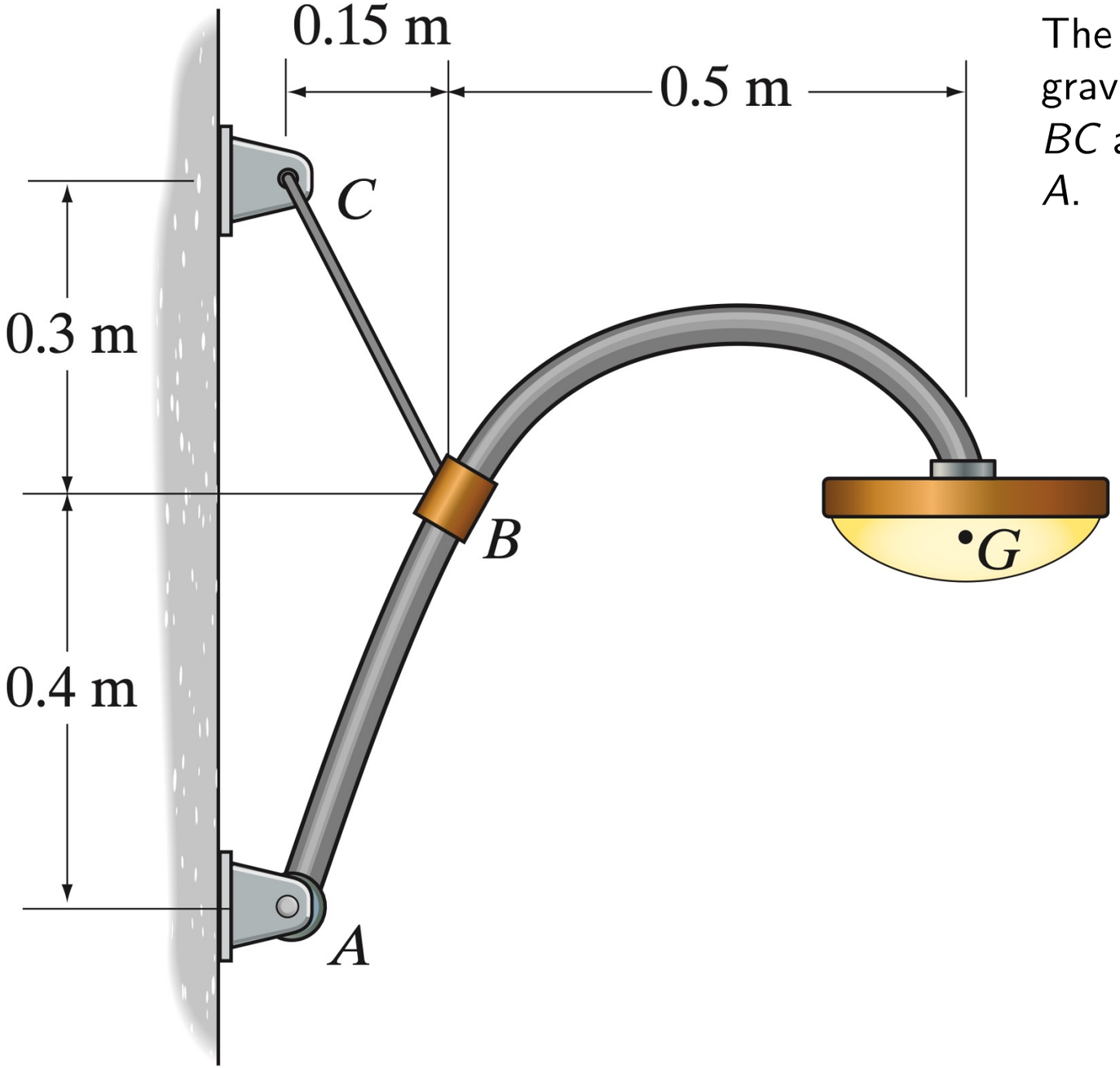
Determine the support reactions.

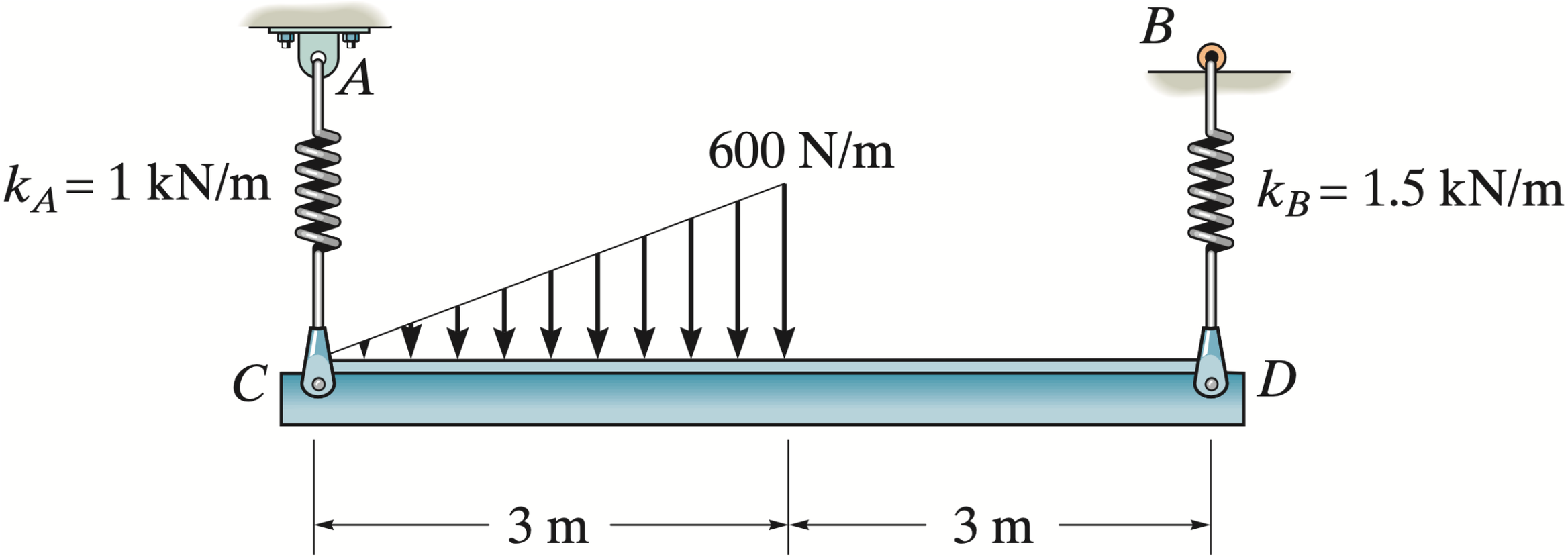




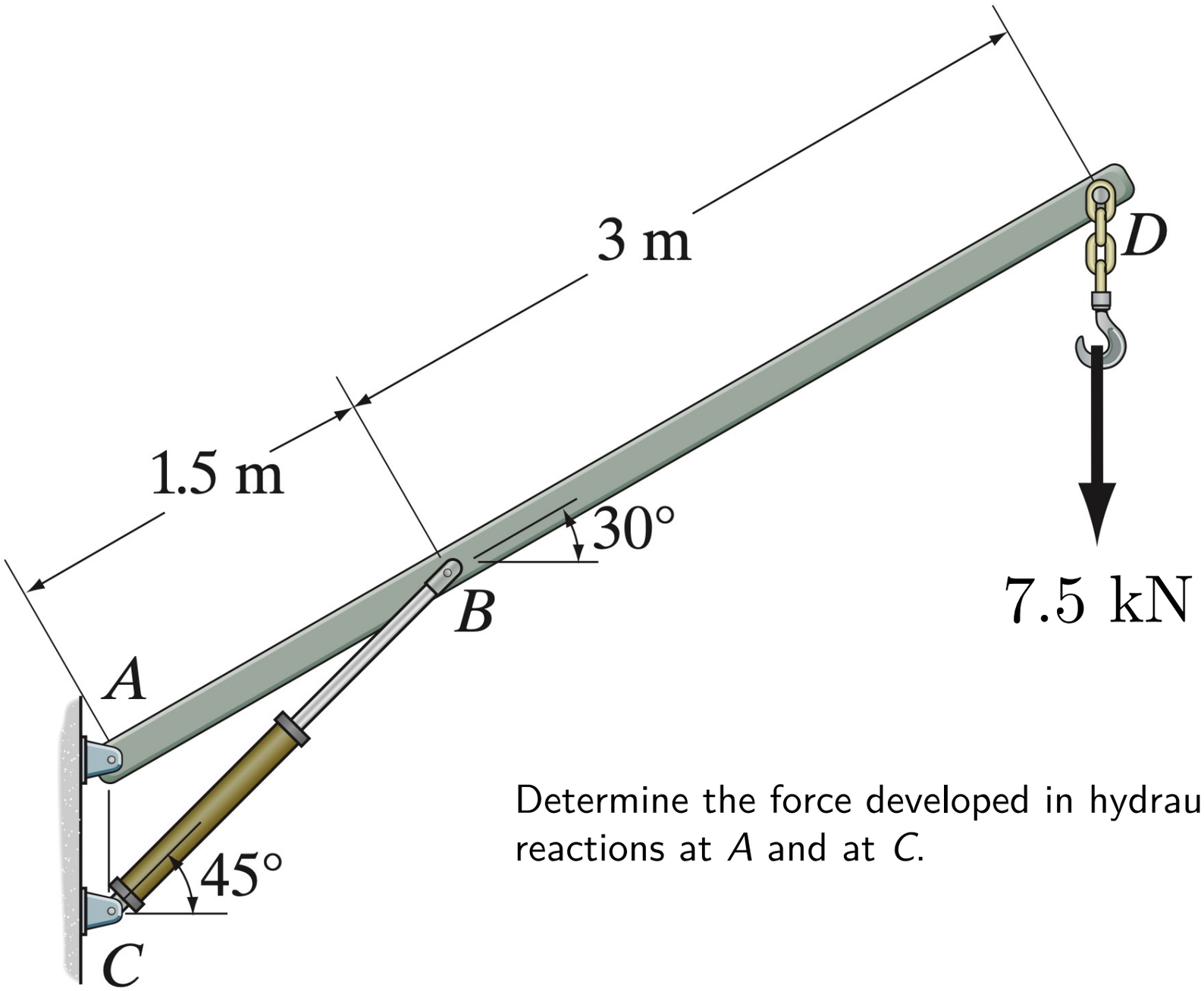
Anchor *BC* holds the 750-kg bulkhead *AD* to the ground. If the bulkhead is assumed to be bottom-pinned, estimate the tension developed in the anchor and the forces developed at the bottom end of the bulkhead.



The lamp weighs 7 kg and has a center of gravity at G. Compute the tension in cable BC and the reaction developed in the pin at A.



In the absence of the distributed loading, beam *CD* remains horizontal and the springs are unstretched. Determine angle of tilt of beam *CD*, assuming that the spring remains vertical.



Determine the force developed in hydraulic cylinder BC, and the pin reactions at A and at C.