Announcements

- Enter your student netID on Mastering Engineering
- In-class Quiz 3 next Monday (10/2)

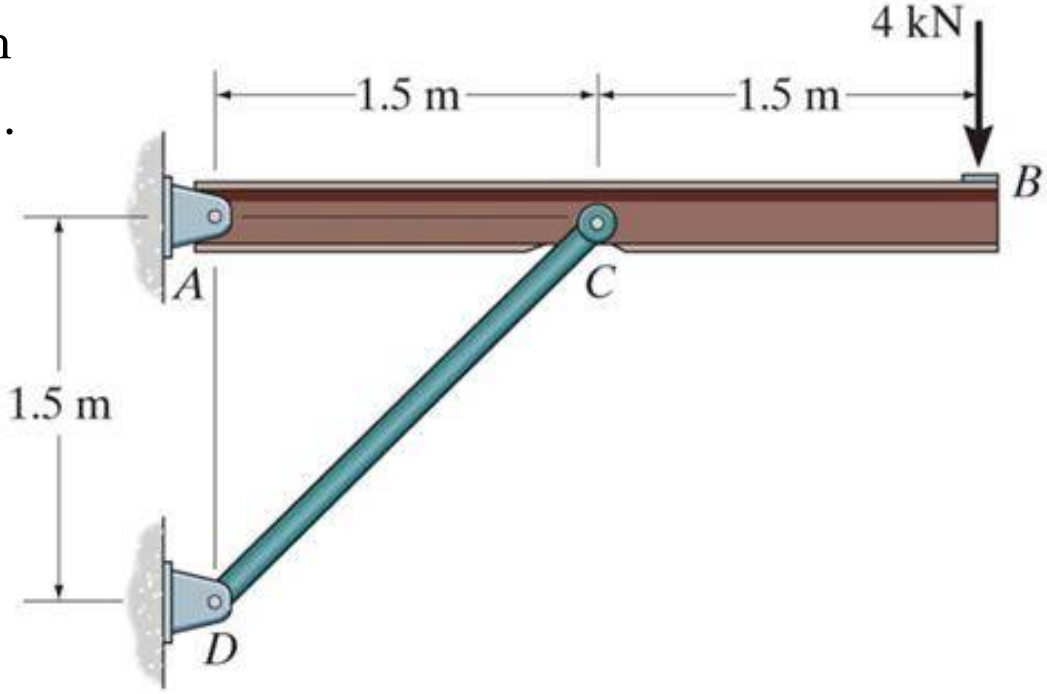
❑ Upcoming deadlines:

- Tuesday (10/3)
  - PL HW10
- Thursday (10/5)
  - ME HW11

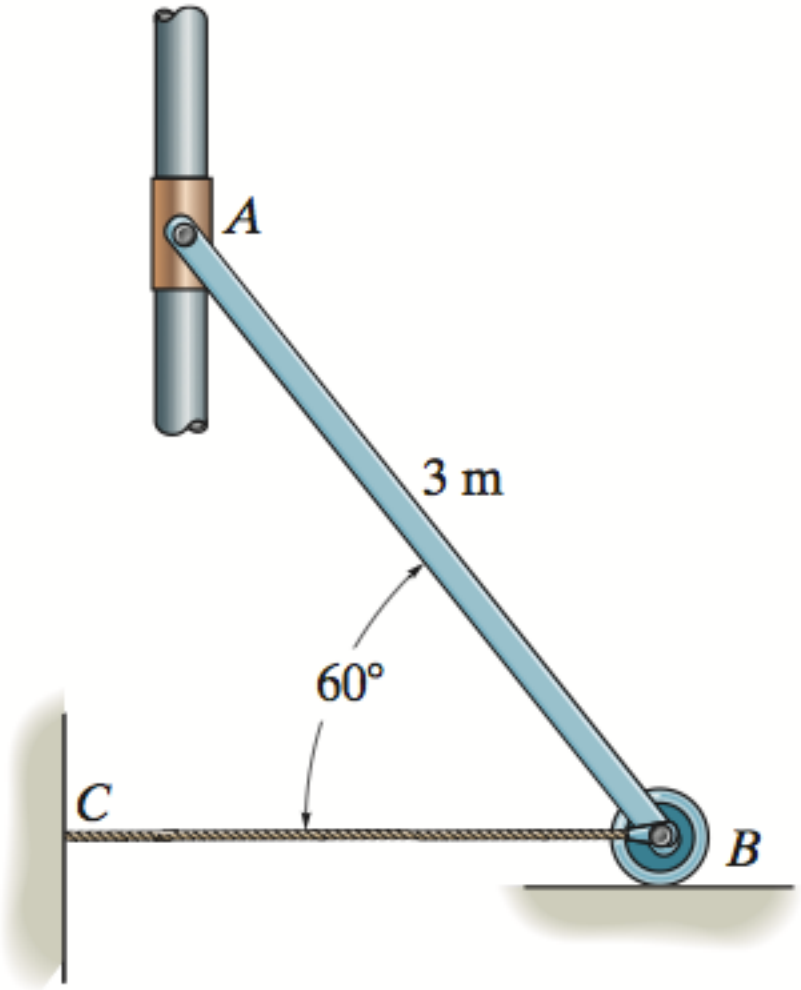
Recap

- Support Reactions
- Constraints (Proper, Redundant, Improper)
- Two-force members

Given the load at B of the beam is supported by pins at A and C. Find the support reactions at A and C.

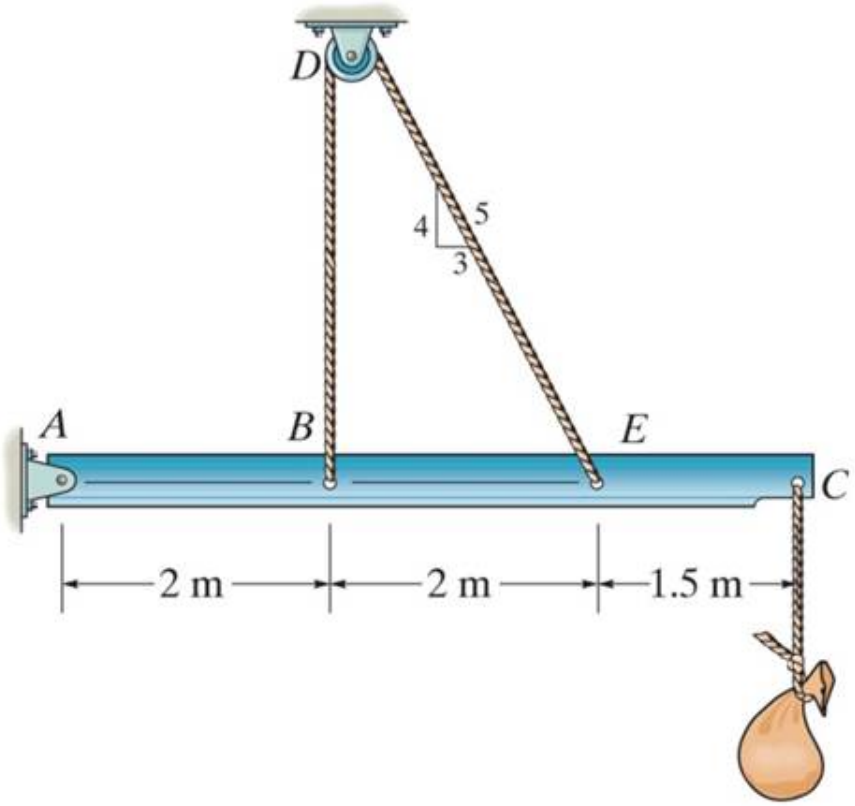


The uniform rod *AB* has a mass of 40 kg. Determine the force in the cable when the rod is in the position shown. There is a smooth collar at *A*.



Example

The beam and the cable (with a frictionless pulley at D) support an 80 kg load at C. What is the tension in the cable?



Given $w = 3$ N/m, what is the free body diagram for the beam below and reactions at B?