

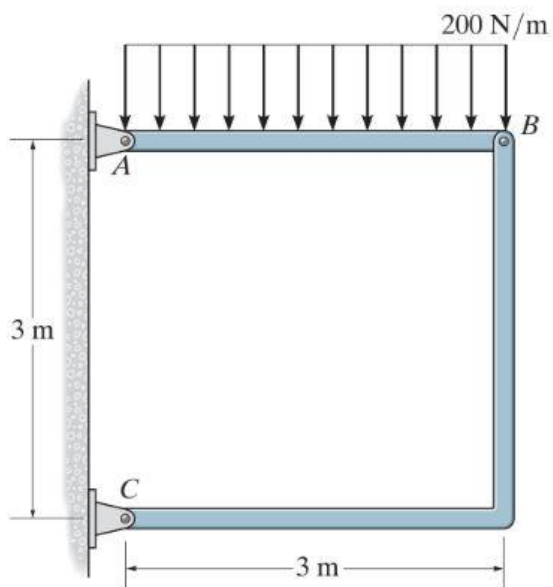
## ES221 ENGINEERING MECHANICS I

### Additional Problems-Set VIII

**Due Date: 15.12.2020**

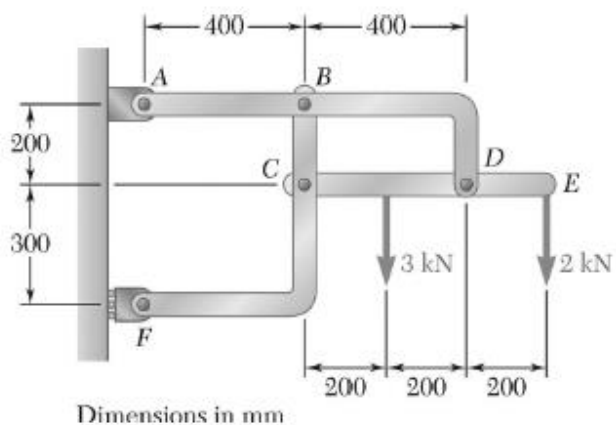
Q1) (33 pts)

Determine the horizontal and vertical components of reaction at pins A and C of the two-member frame.



Q2) (33pts)

For the frame and loading shown, determine the components of all forces acting on member ABD.



Q3) (34 pts)

Determine the horizontal and vertical components of reaction that the pins at A, B and C exert on the frame. The cylinder has a mass of 80 kg.

