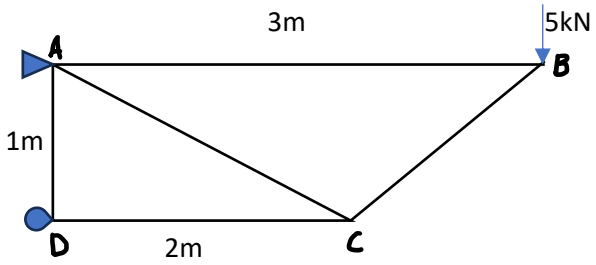
Maulana Azad National Institute of Technology, Bhopal
Department of Civil Engineering

Engineering Mechanics (CE109)

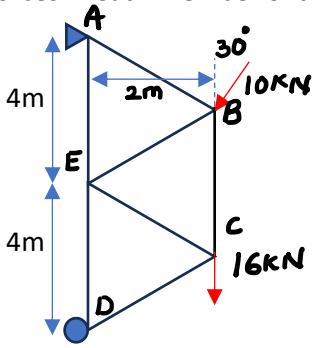
Sessional Sheet III

Method of Joints

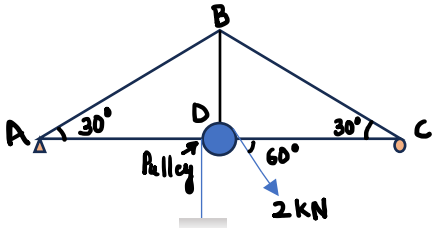
1. Determine the forces in each member of the truss. Note the presence of any zero force members.



2. Determine the forces in each member of the truss. All triangles are isosceles.

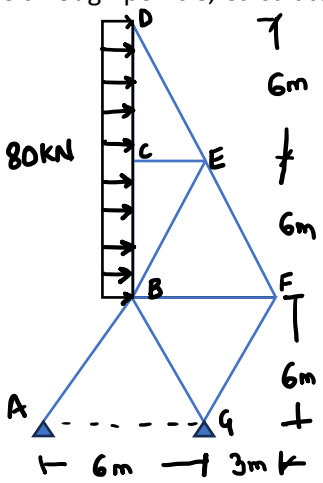


3. Determine the forces in each member of the truss.

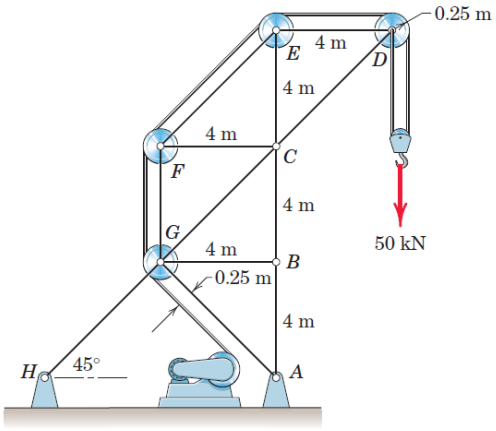


Method of Sections

4. The signboard truss is designed to support a horizontal wind load of 80kN. If the resultant of this load passes through point C, Calculate the forces in member BG and BF.



5. Determine the forces in members FG,CG,BC and EF for the loaded crane truss.



6. Determine the forces in member BE of the loaded truss.