

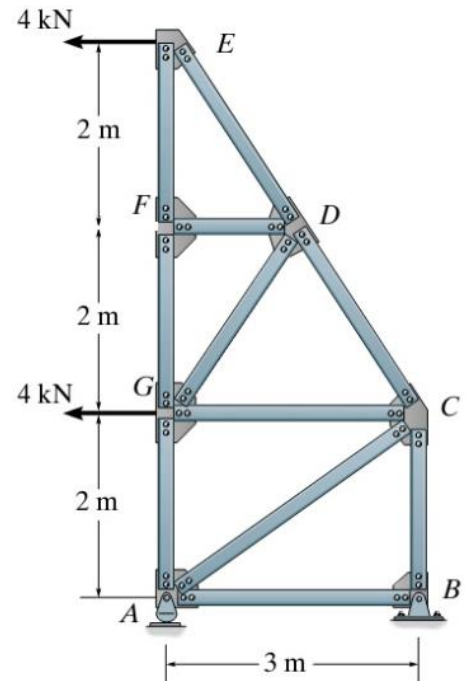
Birzeit University
Faculty of Engineering
Department of Civil and Environmental Engineering

ENCE 3331, Structural analysis I
Quiz #2

Problem 1:

For the given truss.

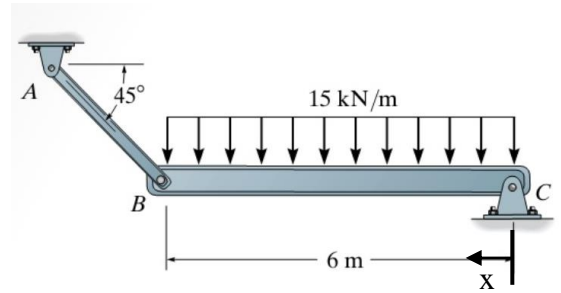
- Identify zero force members
- Calculate the external reactions
- Determine the internal forces in members ED, FE, and FG.



Problem 2:

For the given Beam:

- Determine the external reactions
- Draw Axial, shear, and moment diagrams
- Sketch the deflected shape



Problem 3:

For the given frame:

- Determine the external reactions
- Draw Axial, shear, and moment diagrams
- Develop a function for the Moment in part AB as a function of x
- Sketch the deflected shape

