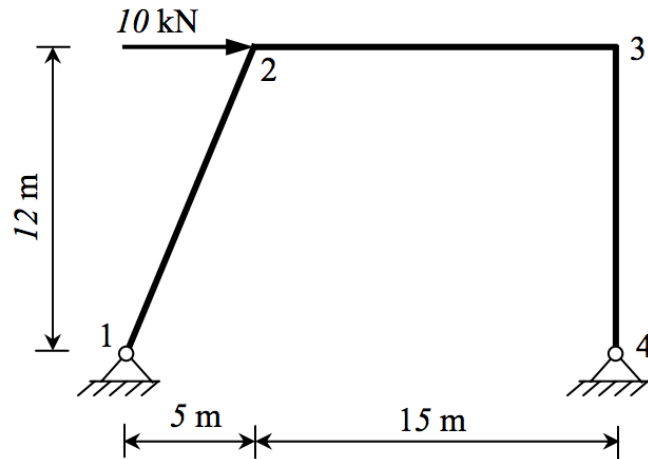


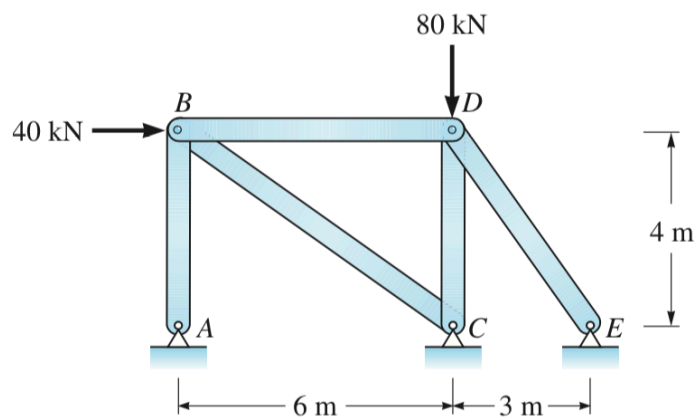
### Tutorial 9

**Solve all problems using Matrix Flexibility Method only**

- For the frame shown in the Figure find out the support reactions at all the supports. Assume that  $EI$  is the same for all members. Neglect axial deformations of the members.



- Determine the reactions and all bar forces for the truss shown in Figure. Given  $E = 200$  GPa and  $A = 1000$  mm<sup>2</sup> for all bars.



- Determine the reactions at supports A and E in the figure.  $EI$  is constant for all members.

