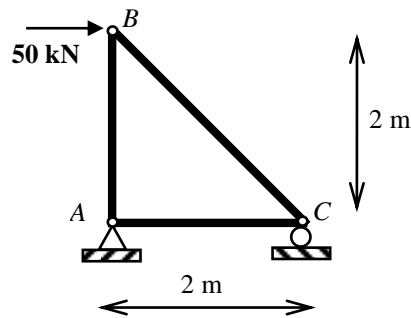
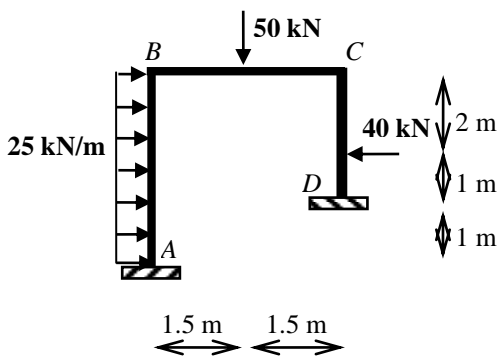
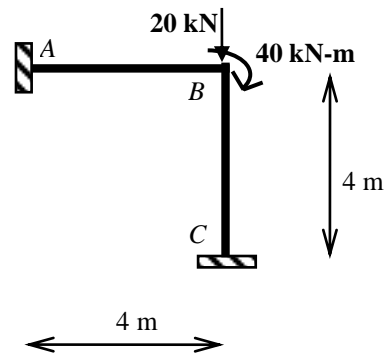


Assignment #5**Assigned on Tuesday, September 22**

- 1) Find out the end forces and end deformations of all the members for the 2-D frame system shown in **Figure1** using the *direct stiffness method*. For all members, consider, $E = 200 \text{ GPa}$, $A = 500 \text{ mm}^2$, $I = 26041.67 \text{ mm}^4$.
- 2) Draw BMD, SFD and approximate deflected shape for the frame system shown in **Figure2**, for member AB&CD consider, $A=8516.112\text{mm}^2$, $I=1.4568\times 10^8\text{mm}^4$. & for member BC consider, $A = 12903.2 \text{ mm}^2$, $I = 1.4193\times 10^8 \text{ mm}^4$ & $E = 200 \text{ GPa}$.
- 3) Draw BMD, SFD and approximate deflected shape for the frame system shown in **Figure3**, for all member consider, $A = 2845.155 \text{ mm}^2$, $I = 2.8678\times 10^7 \text{ mm}^4$ & $E = 200 \text{ GPa}$.

**Figure 1****Figure 2****Figure 3**