## Tutorial Sheet \#2

## Assigned on Thursday, Aug 06

1. For the uniform beam $A B C$ (Figure 1), draw the BMD, SFD, and approximate deflected shape, when support $B$ settles by $\mathbf{8 0 ~ m m}$. Also find the rotation and displacement at point $C$. $E=200 \mathrm{GPa}, \mathrm{I}=100 \times 10^{-6} \mathrm{~m}^{4}$.


Figure 1
2. Draw the BMD and the approximate deflected shape for the frame systems shown in Figures 2 and 3. Assume same EI for all the members and neglect axial deformation.


Figure 2


Figure 3

