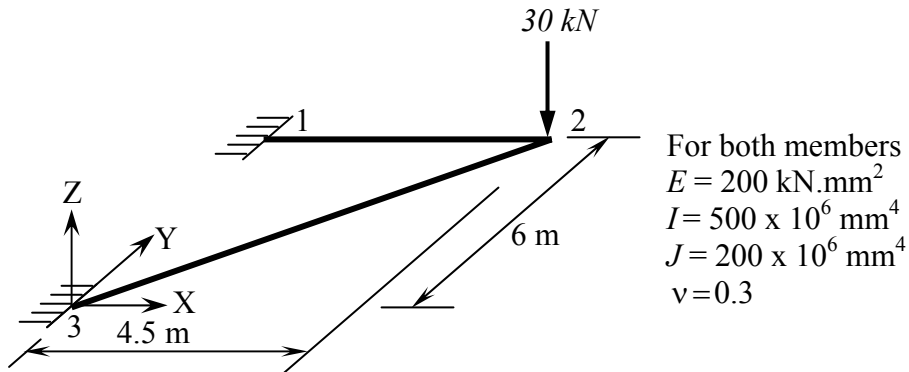
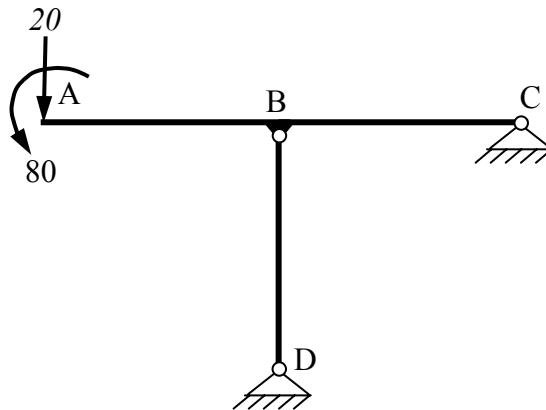


1. Using stiffness method find joint deflections, member end forces, and reactions for the Grid shown in **Fig. 1**



**Fig.1**

2. Using stiffness method find joint deflections, member end forces, and reactions for the Beam-Truss shown in **Fig. 2**. Use material and geometric properties from Fig.1 and  $I/A=3000\text{mm}^2$



**Fig. 2**