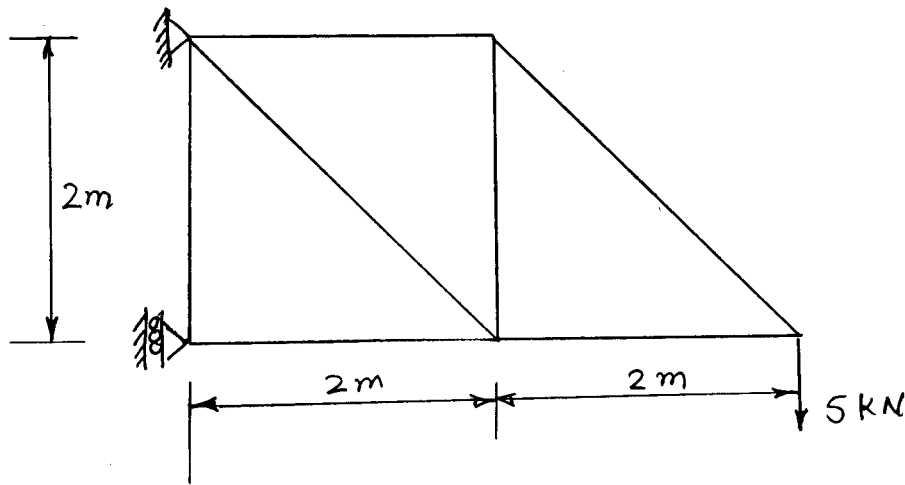
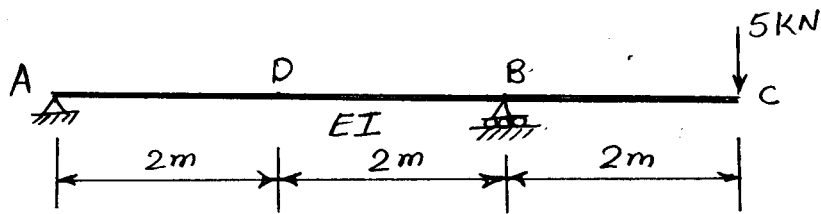


Q.1. Find the Vertical and Horizontal Displacements of Pt D in the truss shown below. Assume $A = 1000 \text{ mm}^2$, $E = 200 \text{ GPa}$ for all the members. Use the method of Virtual Work.



Q.2



For the beam shown above find the deflections and slopes at pts C & D. Use Castigliano's Theorem for solution. Take $EI = \text{Constant}$ for the beam.