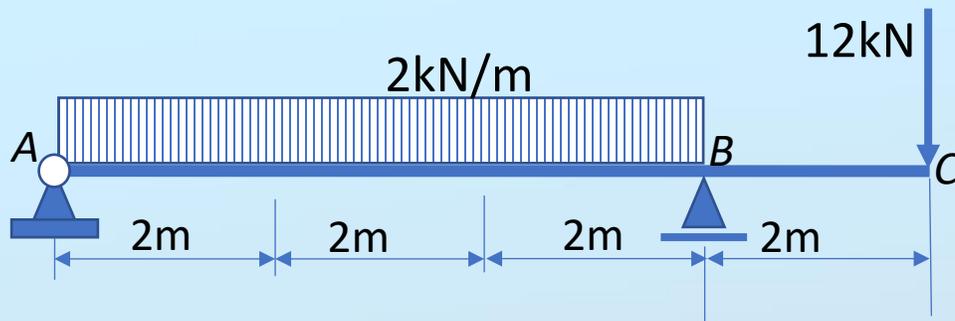
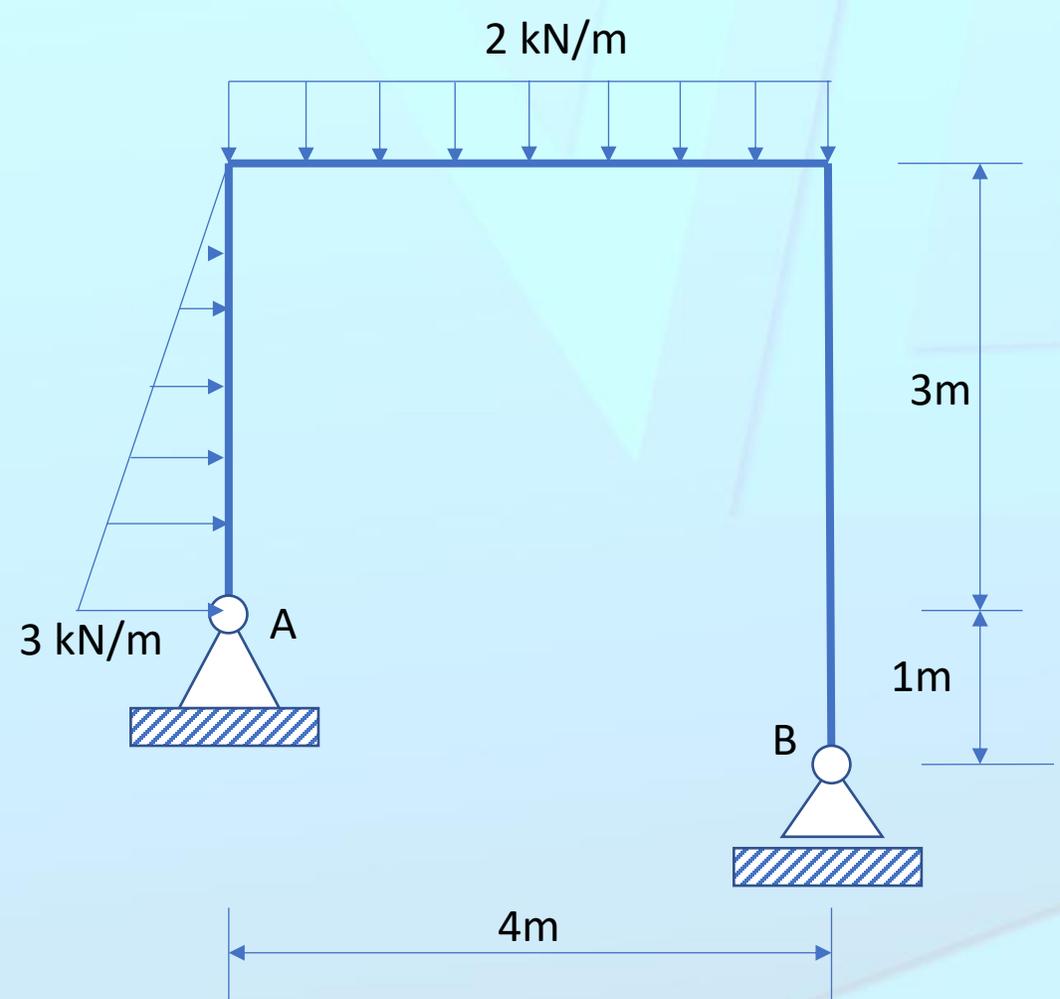


Problem 3. Determine the shear-force and bending-moment diagrams for the simple beam shown in Fig. using the section method.

Problem 4. Determine the shear-force and bending-moment diagrams for the simple beam shown in Fig. using the section method. Then determine the location and the value of the maximum bending moment.

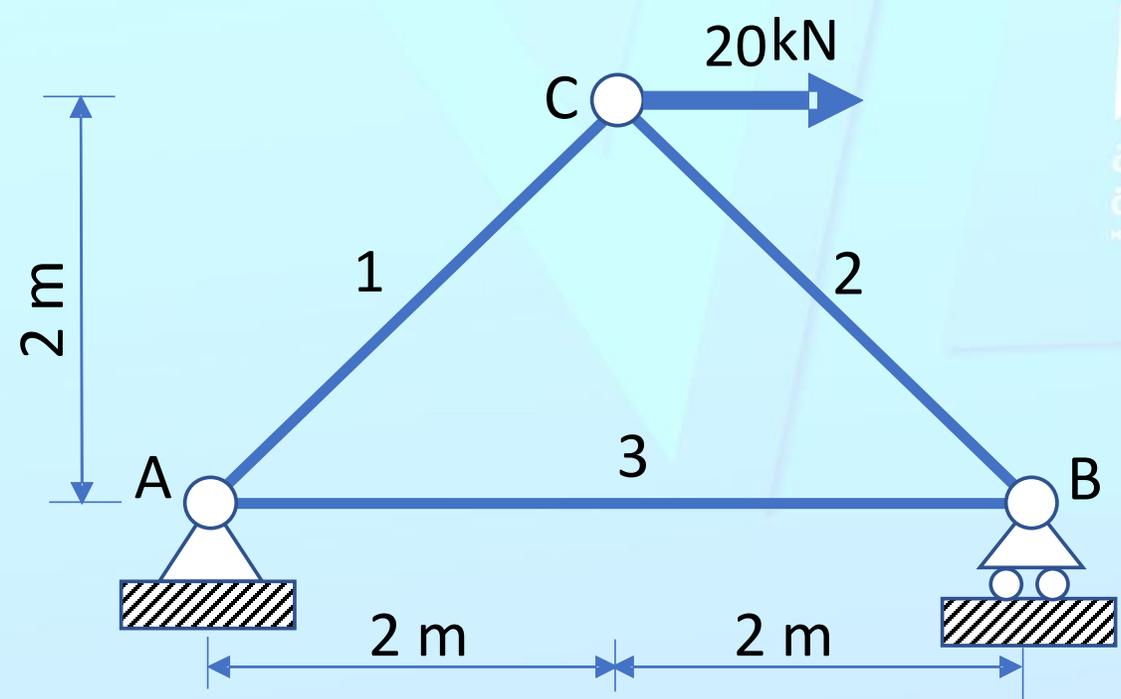


Determine the support reactions for the depicted frame.



Determine

- The support reactions for the depicted truss.
- The forces in its members.
- Horizontal displacement of joint B



Consider a simple truss consisting of three pin-ended bars connected to a common suspended joint. All bars have the same cross sectional area A , and the same material properties E . Determine

- Forces in each bar.
- Displacements u & v of the suspended joint.

