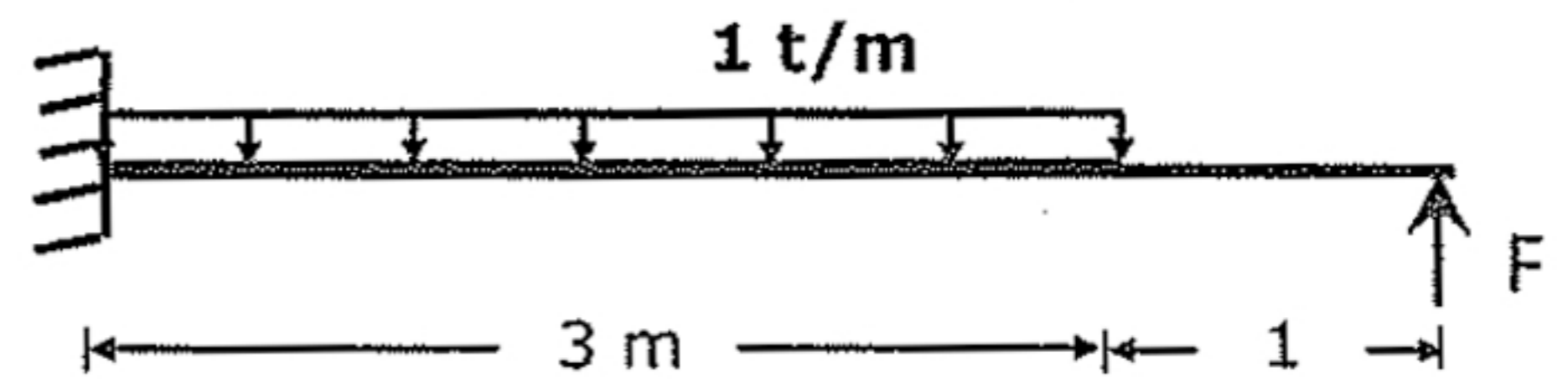




Answer the following questions, and assume any missing data.

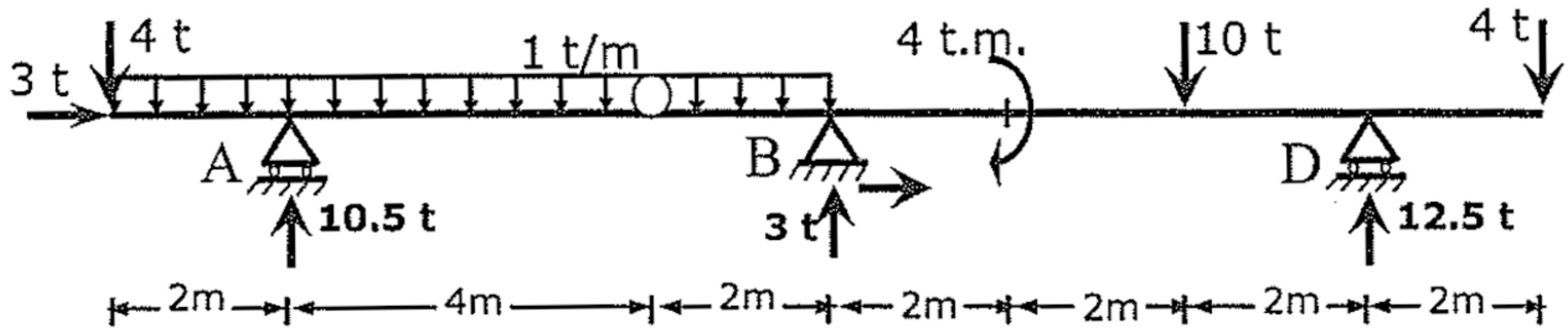
Q 1 (10 degree)

Calculate the force (F) such that the Maximum +ve B.M. = Maximum -ve B.M.



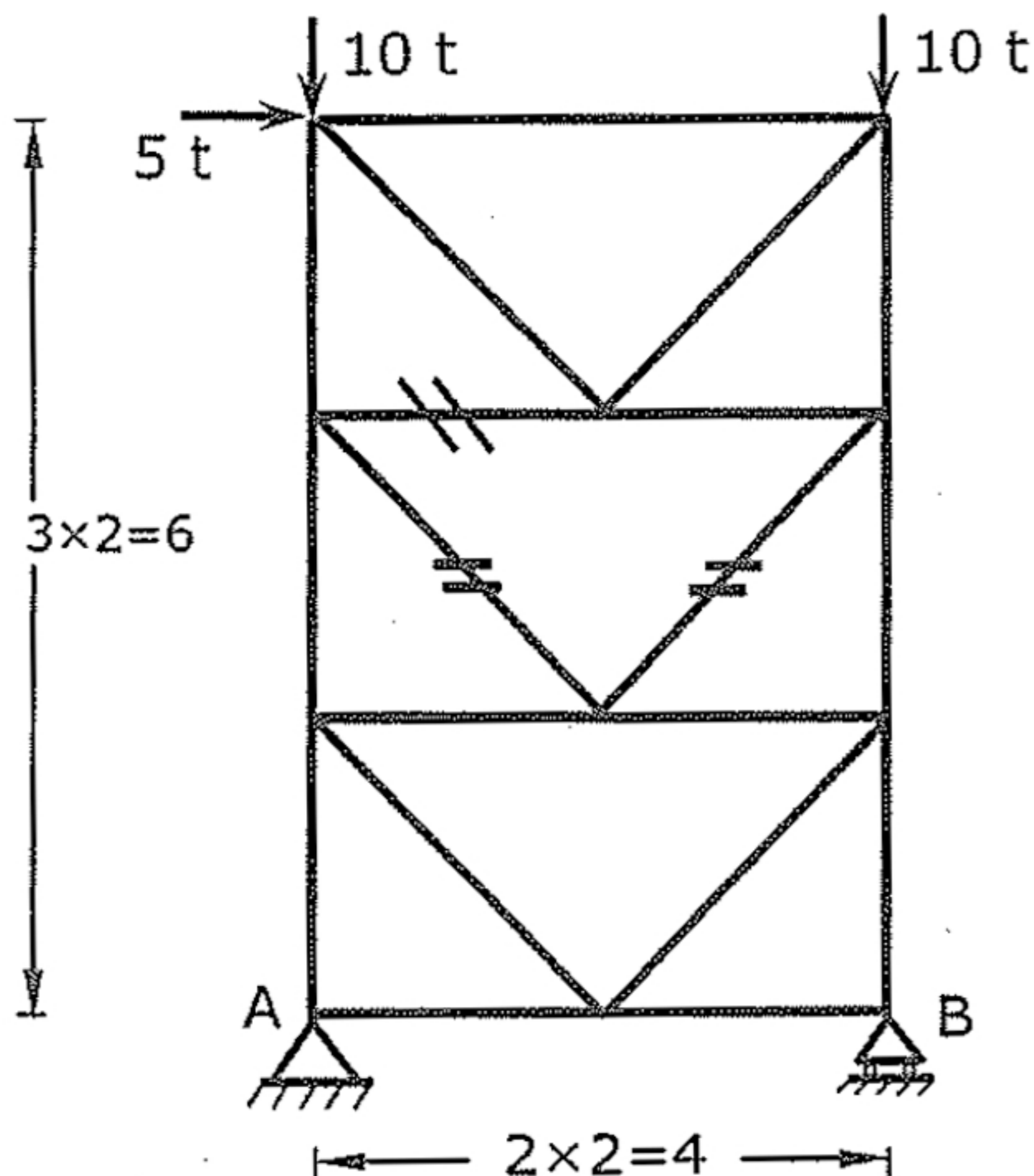
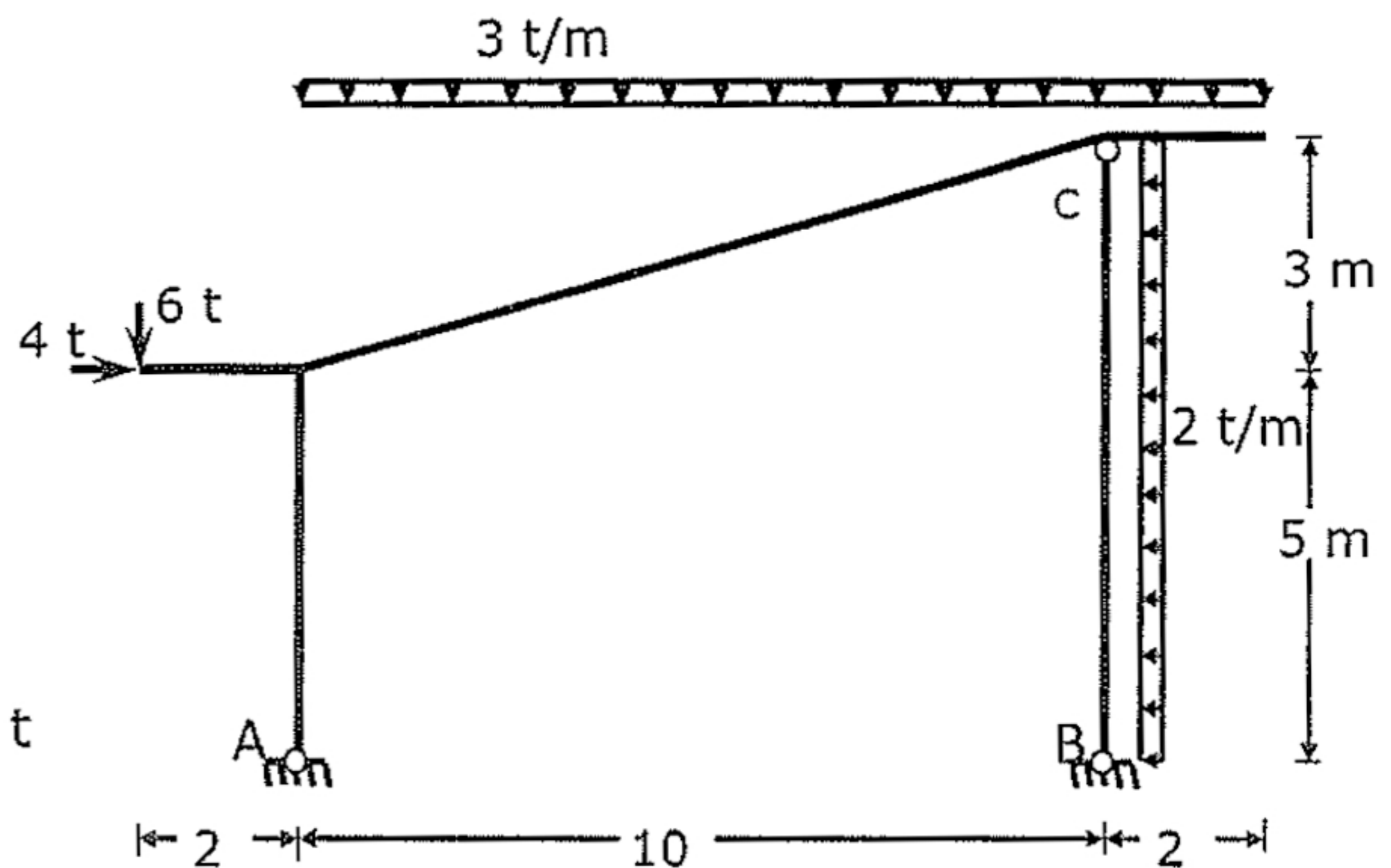
Q 1 (15 degree)

For the shown beam, draw the normal, shear, and bending moment diagrams.



Q 3 (15 degree)

Draw the N.F., S.F., and B.M. diagrams for the shown frame.



Q 4 (10 degree)

Find the forces in the marked members for the shown truss.