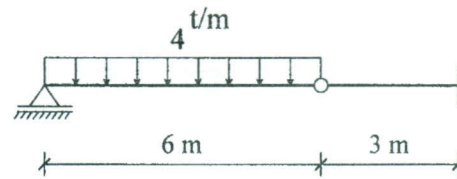
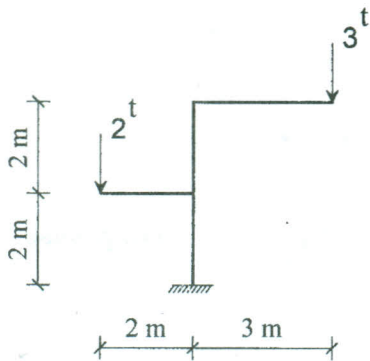
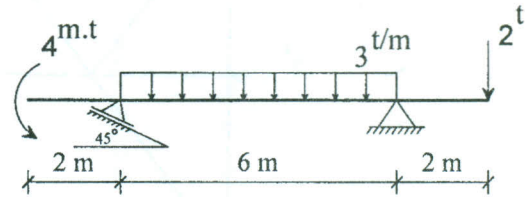
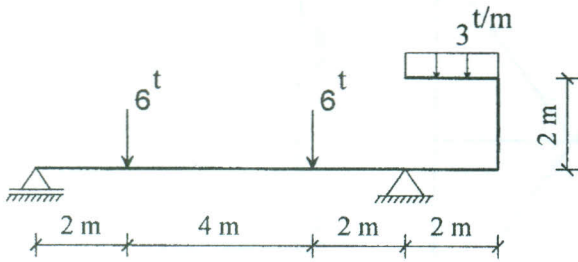




Question (1)

(20 points)

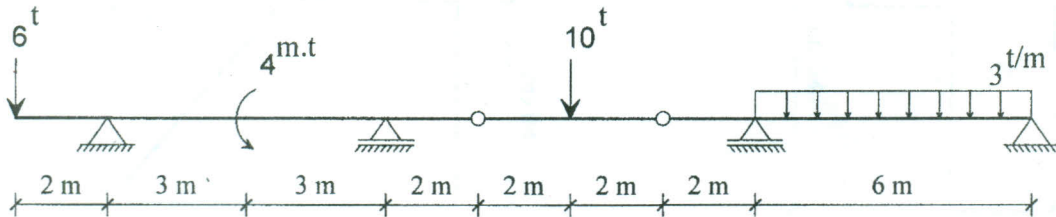
For the shown structures, draw B.M.D.



Question (2)

(15 points)

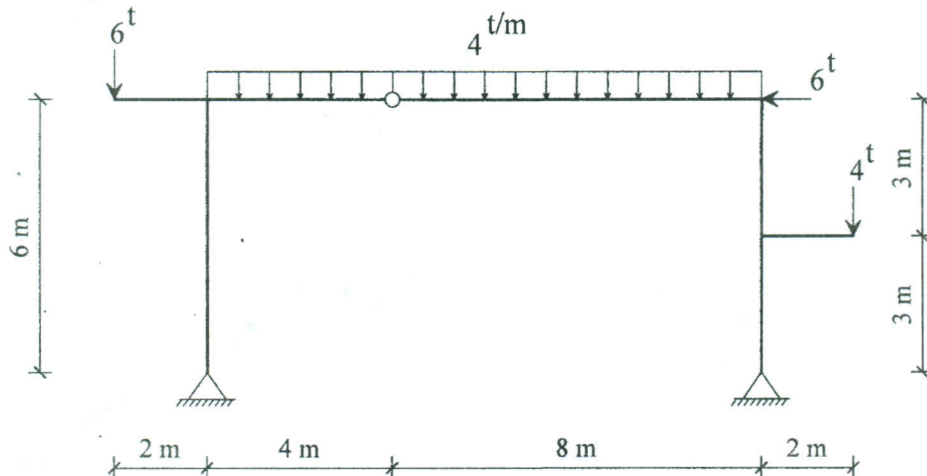
For the shown beam, find the reactions at the supports and draw N.F.D., S.F.D., B.M.D.



Question (3)

(15 points)

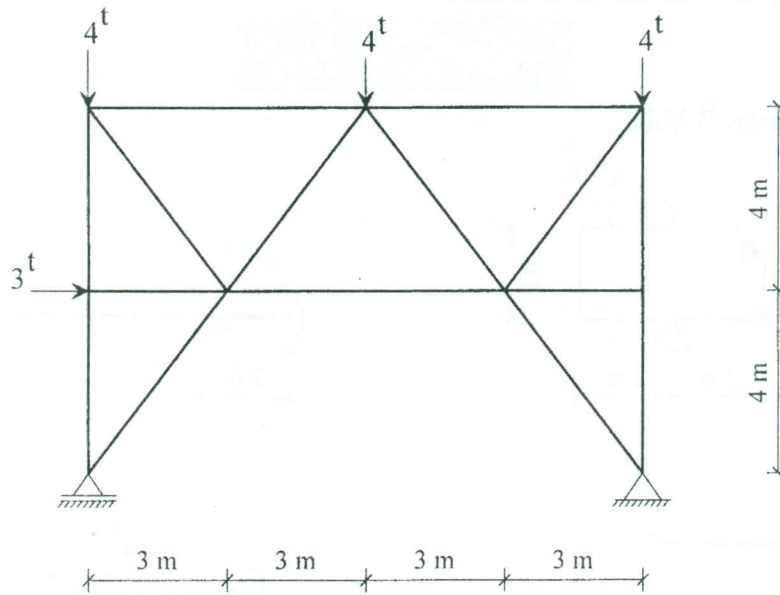
For the shown frame, find the reactions at the supports and draw N.F.D., S.F.D., B.M.D.



Question (4)

(15 points)

For the shown truss, draw the stress diagram to find the forces in all members.



Question (5)

(10 points)

For the shown cross sections, calculate I_x , I_y , I_{xy}

