تحليل انشائى ١

Mansoura University	Structural Analysis	Date: 1/1/2013
Faculty Of Engineering	Level : 1	Time: 2 Hour
B.C.E. Deprt.	Final Exam	Dr/ Abd el Aziz

Q1:(20%) For the shown structure in fig. (1), calculate the reaction supports **a** and **b.**

Q2:(30%) For the shown frame in fig. (2); draw the normal force ,shear force and bending moment diagrams.

Q3:(30%) Find the all forces in the shown truss in fig.(3); graphically. Then check the force in the marked member analytically.

Q4:(30%) For the shown beam in fig (4); draw the influence line for the reactions; shear force and bending moment at section **n,m,p** . If the beam is subjected to uniform **L.L.=2t**/m with length equal **3**m; then calculate the maximum reactions at supports **a,b** ; shear and moment in section n.

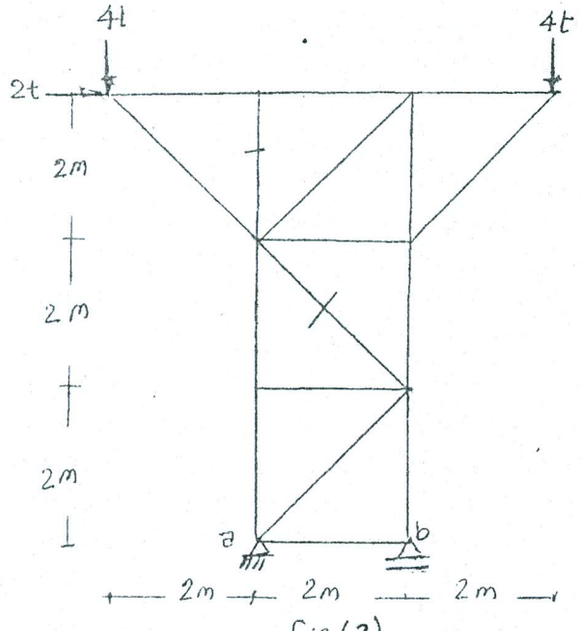


Fig (3)

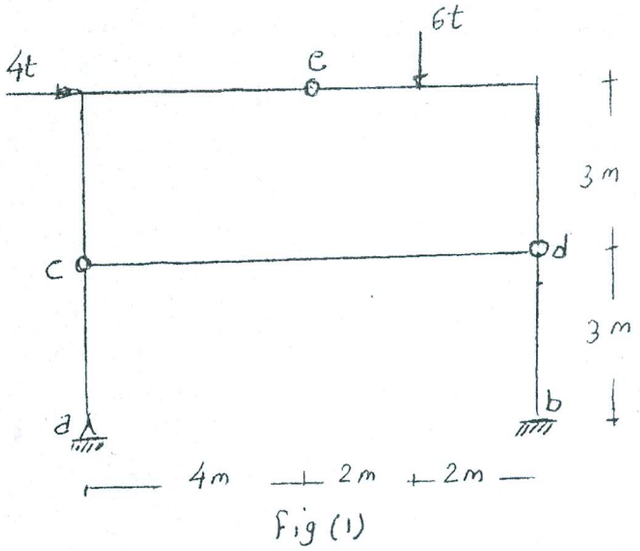


Fig (1)

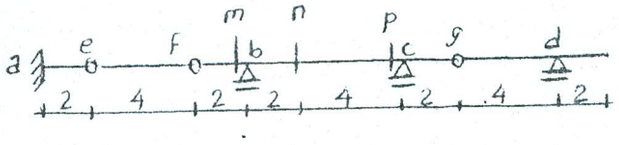


Fig (4)

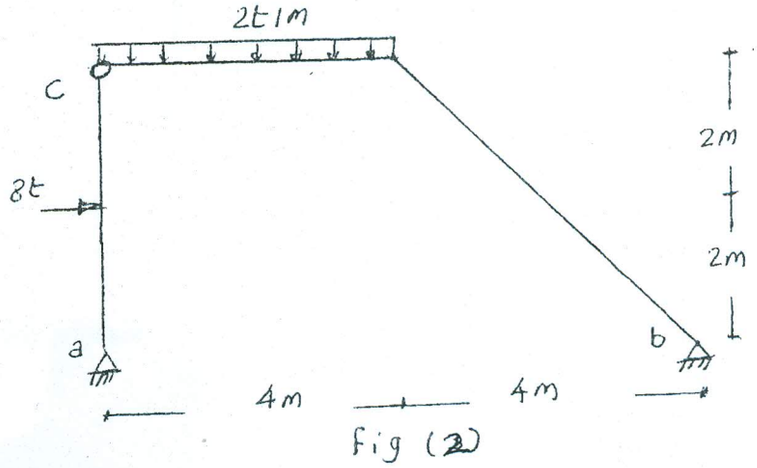


Fig (2)

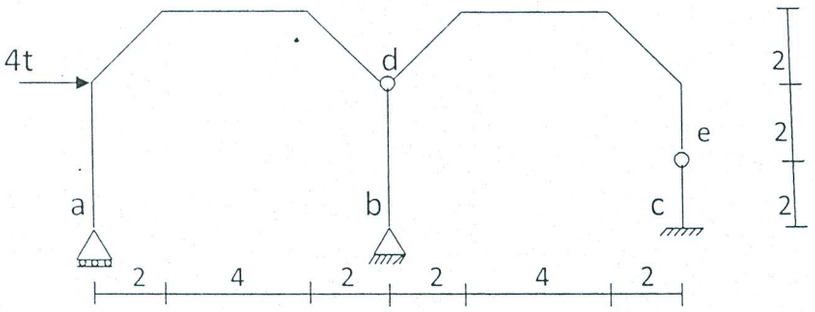
Mansoura University	Structural Analysis	Date: 29/5/2013
Faculty Of Engineering	Level : 1	Time: 2 Hour
B.C.E. Deprt.	Final Exam	Dr/ Abd el Aziz

Q1:(20%) For the shown structure in fig. (1), calculate the reactions at supports **a , b and c.**

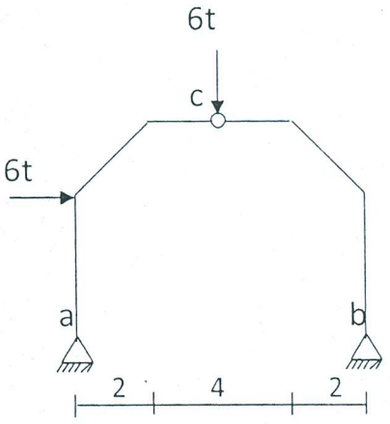
Q2:(30%) For the shown frame in fig. (2); draw the normal force ,shear force and bending moment diagrams.

Q3:(30%) Find the all forces in the shown truss in fig.(3); graphically.

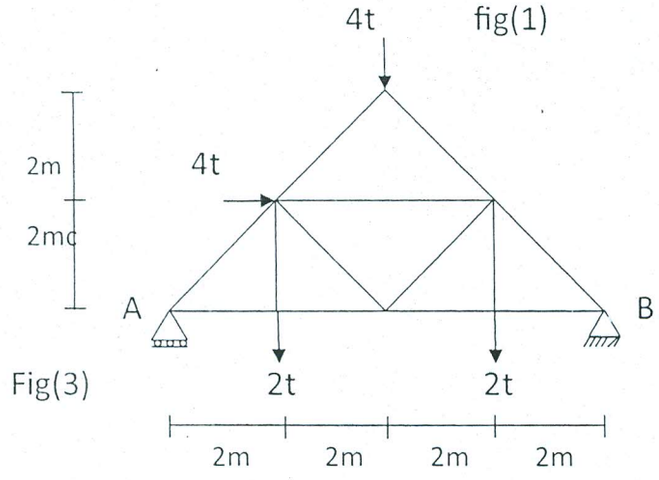
Q4:(30%) For the shown beam in fig (4); draw the influence line for the reactions; shear force and bending moment at sections **e ,f ,g and c**.



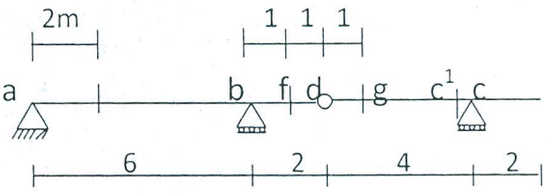
fig(1)



fig(2)



Fig(3)



fig(4)