

Menoufia University
 Faculty of Engineering, Shebin El-Kom
 Architecture Department
 Final Examination, 2015-2016
 Date of Exam: 0/6/2016



Subject : Theory of Structures 1
 Code: CVE127
 Year : First Architecture
 Time Allowed : 3 hours
 Total Marks : 50 marks

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Allowed tables and charts (None)

Answer the following questions

Question 1 (10 marks)

Find the internal force diagram for the following statically determinate beam.



Fig. 1

Question 2 (20 marks)

The frame is statically determinate, rigid-jointed frame are indicated in Problem Fig. 2, for the loading given

- i) determine the support reactions
- ii) sketch the axial load, shear force and bending moment diagrams.

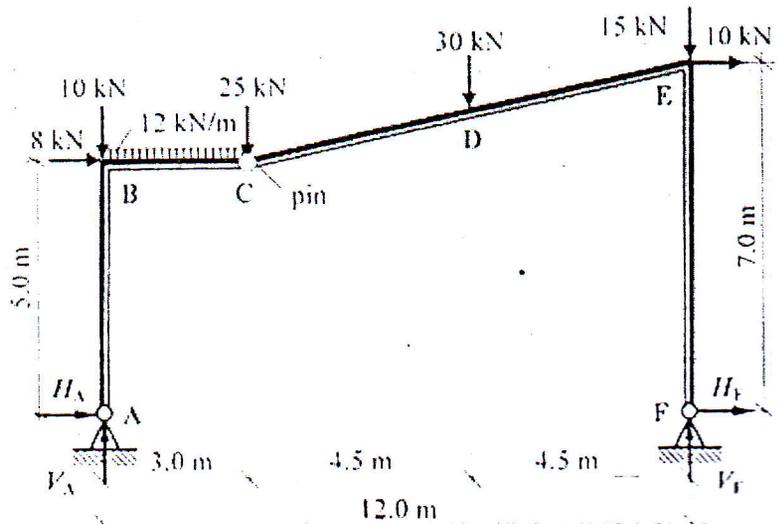


Fig. (2)

Question 3 (10 marks)

Determine the force in each member of the roof truss shown in Fig. 3. State whether the members are in tension or compression. The reactions at the supports are given.

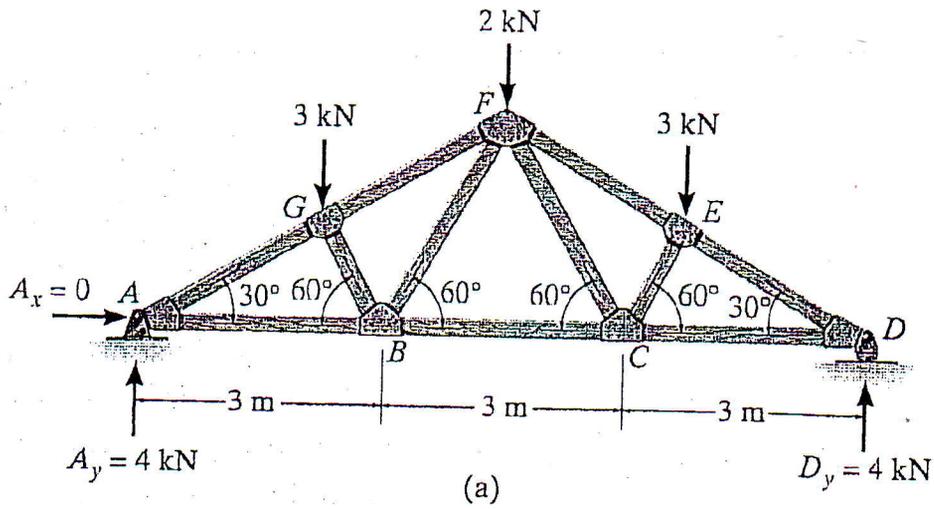


Fig 3