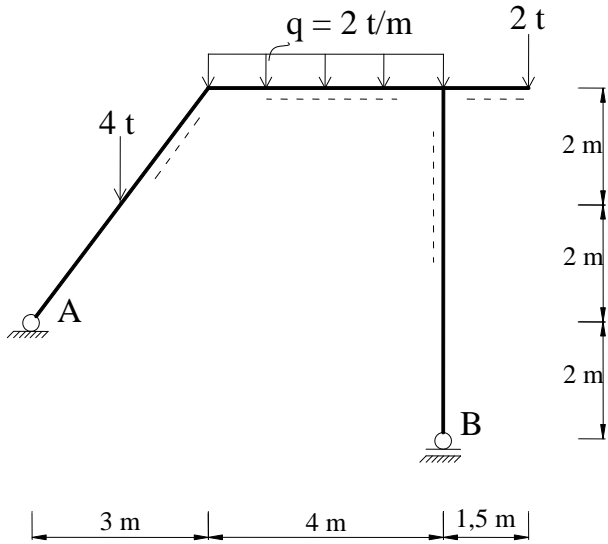


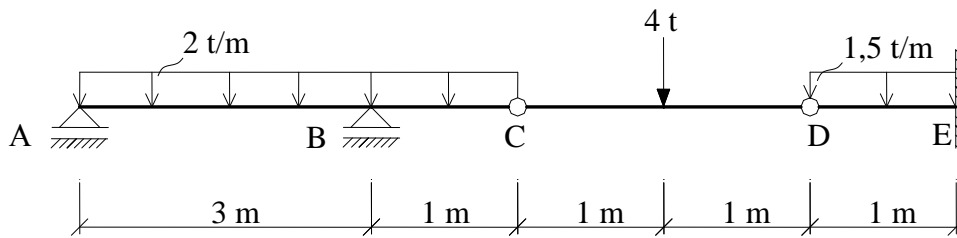
**MIM 271E - THEORY OF STRUCTURES**  
**HOMEWORK-3**  
**Due Date : Nov 13th, 2014**

1)



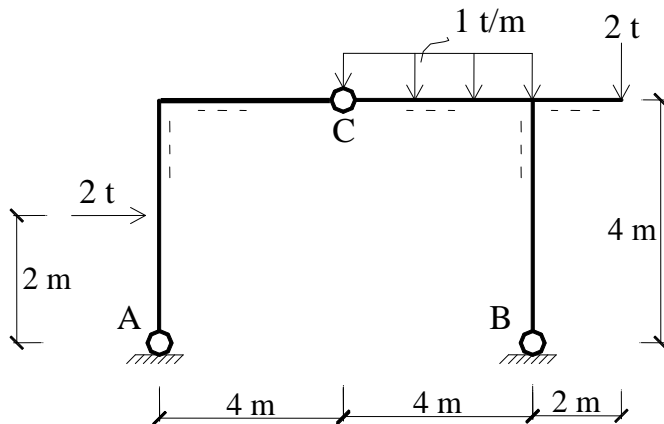
Draw the internal load diagrams (N, T, M) for the given frame.

2)



Draw the internal load diagrams (M and T) for given Gerber Beam.

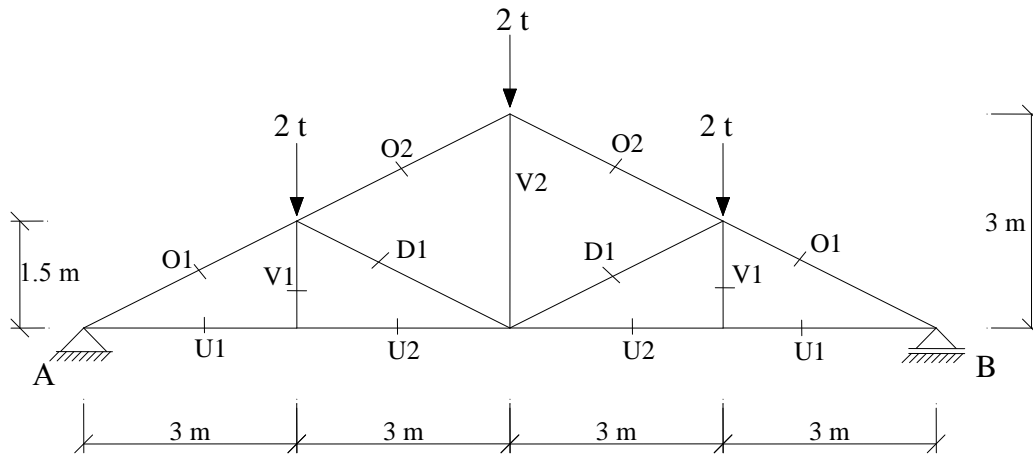
3)



Draw the internal load diagrams (N, T, M) for the given three-hinged frame.

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4)



For the truss given in the figure;

- a) Determine the force in each of its members by using CREMONA method and list these member forces in a table.
- b) Determine the member forces  $O_2$ ,  $D_1$  and  $U_2$  by using Ritter Method (Method of Sections).