

**CE383 STRUCTURAL ANALYSIS**  
FALL 2013 – 2014

**HOMEWORK 3**

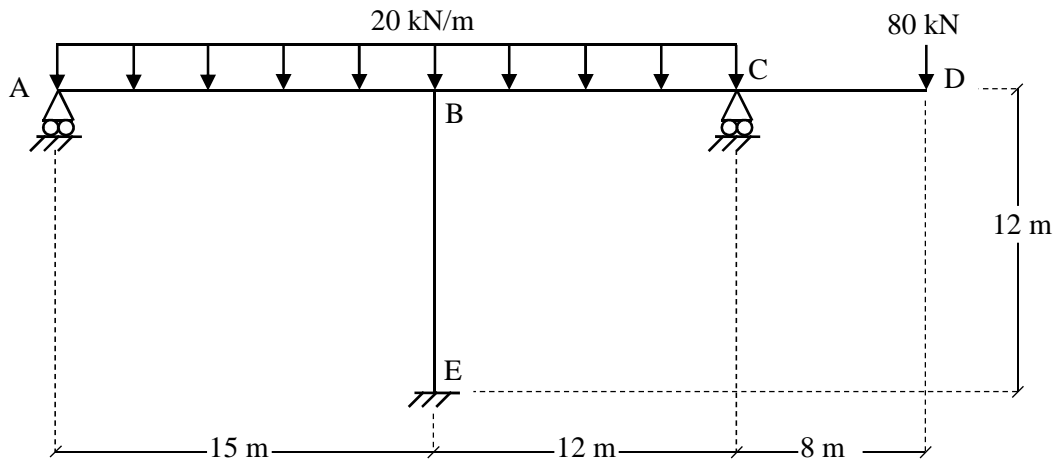
DUE: 09.12.2013 @ 17.00

**There will 20% deduction per day for late submission**

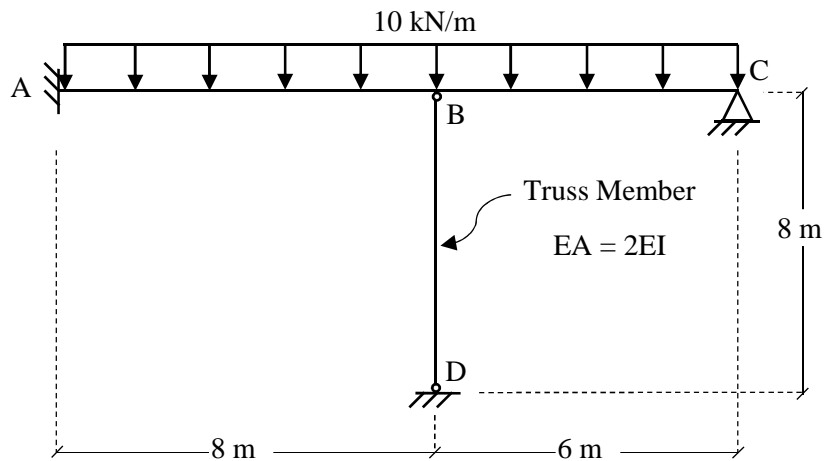
**IMPORTANT NOTE:** Homework papers will be submitted with all sheets bound together by stapling the upper left corner. Do not use sheet protectors (po et dosya). Write both your ID number and full name. Homework documents that are not compatible with this format will be penalized.

For the first 3 questions calculate the support reactions using slope deflection method and draw the bending moment diagram.  $EI$  is the same and constant for every member. Assume axial rigidity.

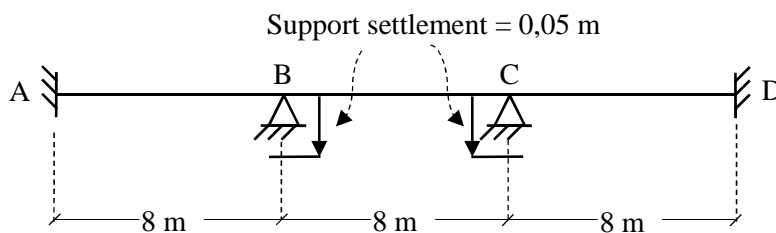
**Q1)**



**Q2)**

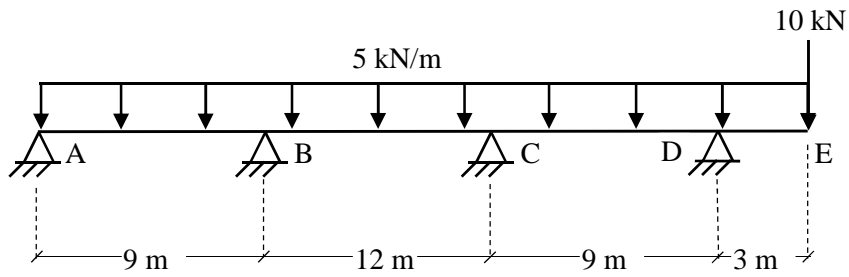


**Q3)**



For questions 4 & 5 use the moment distribution method to analyze the given structures. Calculate support reactions and draw the bending moment diagram.

**Q4)**



**Q5)**

