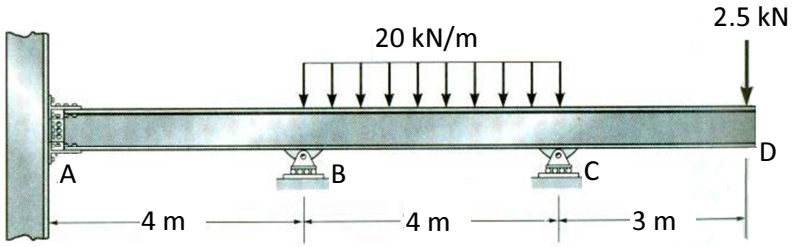
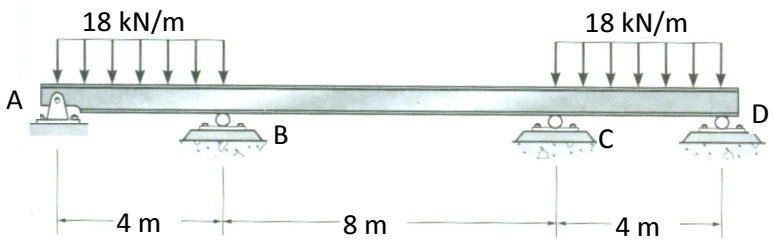
Due: 13.12.2011
(midterm date)

CE 383 STRUCTURAL ANALYSIS
Fall Term, 2011
Homework #4

1. Determine the reactions at the supports using moment distribution method and then draw the bending moment diagram. Assume A is fixed support. EI is constant.



2. The beam is subjected to the loading shown. Determine the reactions at the supports using moment distribution method and then draw the bending moment diagram. EI is constant.



3. Determine the internal moments at the supports using moment distribution method and draw the bending moment diagram for the frame shown. Assume A is pinned, D is a roller and C is fixed. Take $I_{ABDE}=240(10^6)$ mm^4, $I_{BC}=160(10^6)$ mm^4, E= 200 GPa