Kuwait University
Civil Engineering Department
CE371 - Structural Analysis II

Homework #1

Slope-Deflection Method

Name:

ID:

Date:

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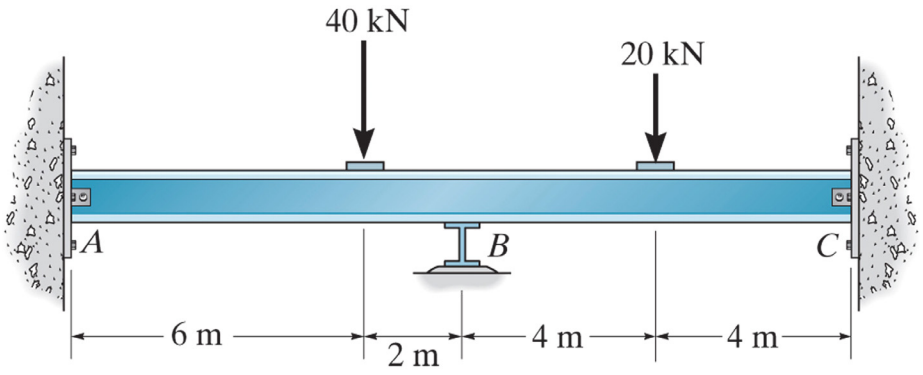
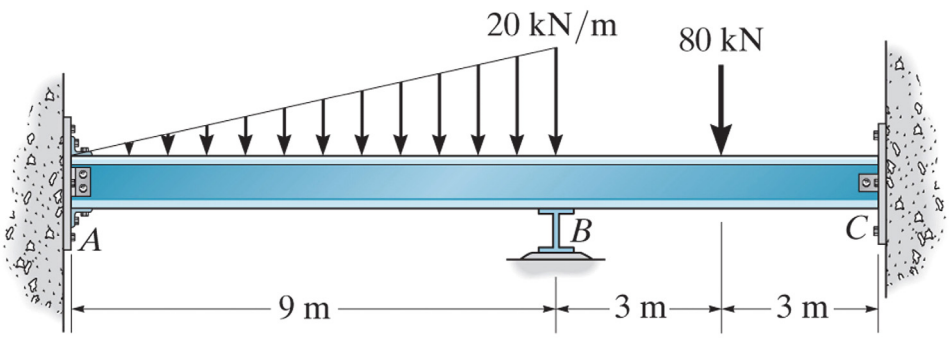
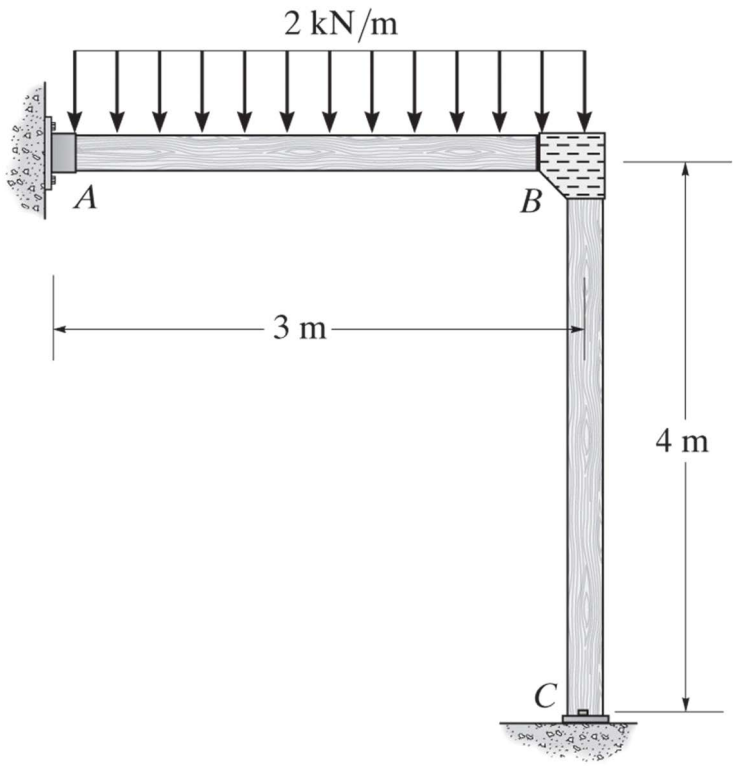
Determine the moment at B, then draw the moment diagram for the beam. Assume the supports at A and C are
pins and B is a roller. EI is constant.



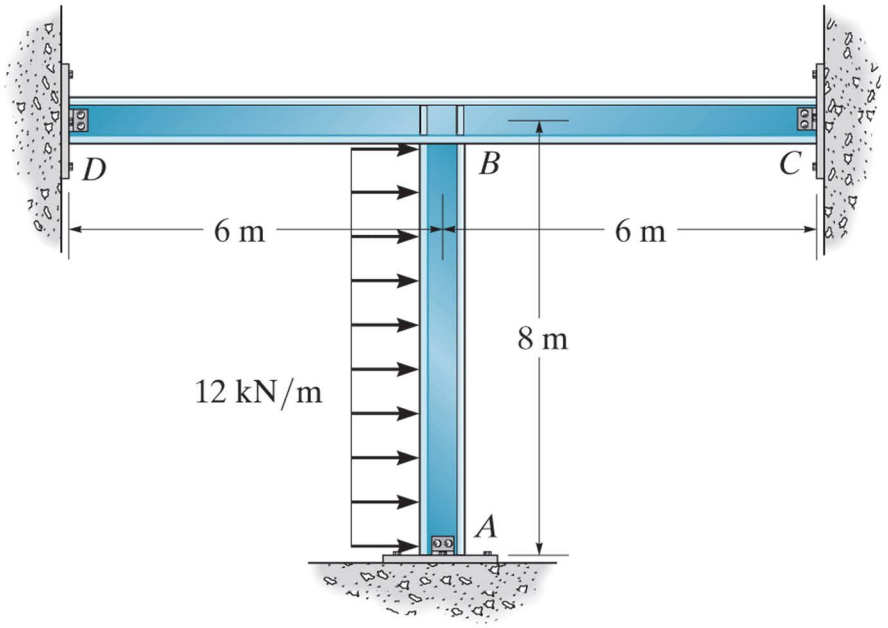
Determine the moments acting at A and B.
Assume A is fixed supported, B is a roller, and C is a pin.
EI is constant.



Determine the moment at B, then draw the moment diagram for each member of the frame. Assume the support at A is fixed and C is pinned. EI is constant.



Determine the moment that each member exerts on the joint at B, then draw the moment diagram for each member of the frame. Assume the supports at A, C, and D are pins. EI is constant.



Determine the moment at joints D and C, then draw the moment diagram for each member of the frame. Assume the supports at A and B are pins. EI is constant.