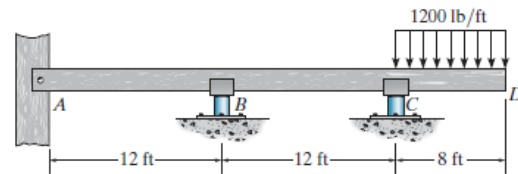
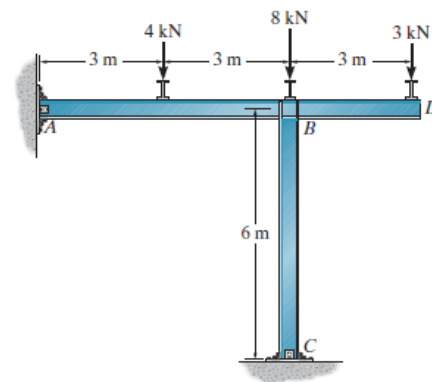


Displacement Methods**Issued:** November 17, 2016**Due:** Monday November 27, 2017 @ 5 pm**T.A:** Rouyaka Bastami (rbast102@uottawa.ca)**Marking:** marked out of **20 marks****A- Slope Deflection Method****Problem 1**

Determine the moments at B and C of the overhanging beam, then draw the bending moment diagram. EI is constant. Assume the beam is supported by a pin at A and rollers at B and C .

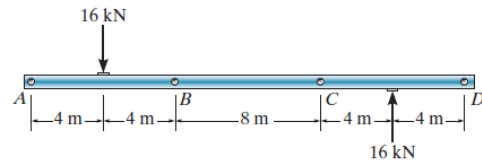
**Problem 2**

Determine the moments at the ends of each member of the frame. The supports at A and C and joint B are fixed connected. EI is constant.



B- Moment Distribution Method**Problem 1**

The bar is pin connected at each indicated point. If the normal force in the bar can be neglected, determine the vertical reaction at each pin. EI is constant.

**Problem 2**

Determine the reactions at A and D. Assume the supports at A and D are fixed and B and C are fixed connected. EI is constant.

