Birzeit University
Faculty of Engineering
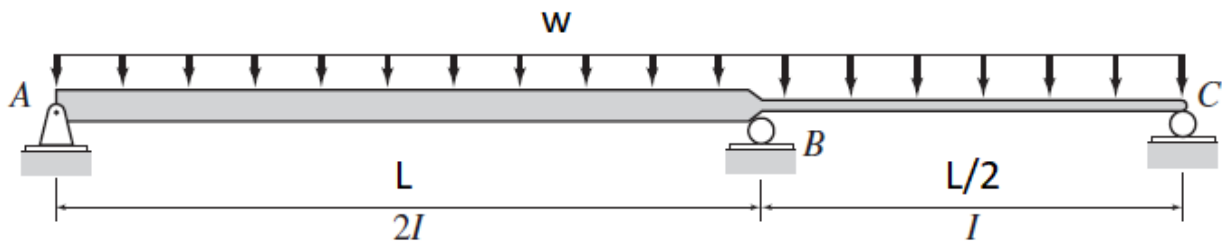## Department of Civil and Environmental Engineering

ENCE 3331, Structural Analysis I

Homework assignment #8
Due on Thursday, May 21st , 2020 @ 8:30 AM.

Question 1: Using <u>force method</u>, Calculate the reactions at A, B, and C, and draw shear and moment diagrams for the following beam, given that L=5m and w=50 kN/m.
(E = constant)

(Bonus +50: Find deflection at the middle of span AB)

Question 2: Using <u>force method</u>, Calculate the reactions at A, and B, and draw axial, shear, and moment diagrams for the following frame. (AC, BE → 2I, CE → I)