DEPARTMENT OF CIVIL ENGINEERING CE-222 STRUCTURAL MECHANICS I Quiz-1 6/2/09

Problem 1

Draw the Axial Force, Shear Force, and Bending Moment Diagram for the frame shown in **Fig. 1.** Then, use this to sketch the Qualitative Deflected Shapes.

Problem 2

Draw the Influence Line diagram for shear at point F on the beam shown in Fig. 2. Then, use this to find the maximum positive and maximum negative shear due to the load train shown.

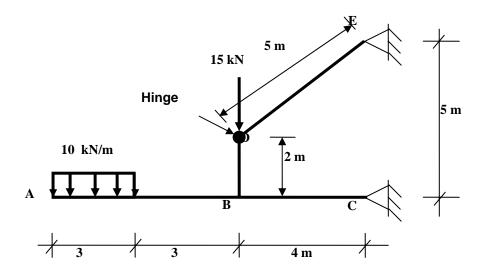


Fig. 1

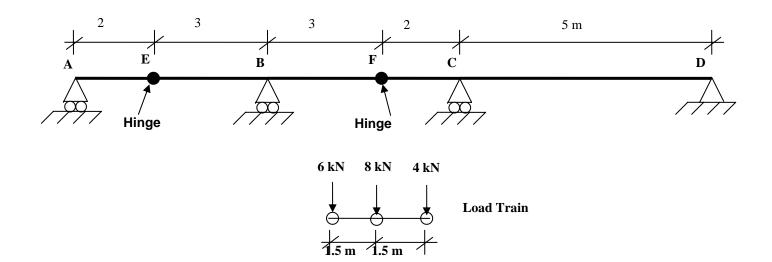


Fig. 2

