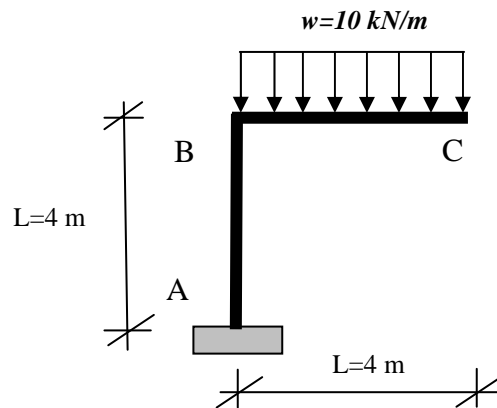## Statically Determinate Frames – Indeterminate Beams

CIVE311 – STRUCTURES I

(Wednesday, May 28, 2008)

Exercise I

Figure I

Referring to Figure I, let **E=10,000,000 kN/m², I=0.01 m⁴**, and **A=0.5 m²** throughout the frame. Neglect the own weight of the frame. Calculate the deflections at points B and C.

Calculations and Diagrams:

Calculations and/or Diagrams (cont'd):

Exercise II

Figure II

Referring to Figure II, let **EI=cst** throughout the frame. Neglect the own weight of the frame. Find reactions and draw shear and bending moment diagrams.

Calculations and Diagrams:

Calculations and/or Diagrams (cont'd):