DEFLECTION OF BEAMS (2/3)

<u>CIVE311 – STRUCTURES I</u>

(Wednesday, April 2, 2008)

Exercise I



Figure I

1. Referring to <u>Figure I</u>, calculate the slope and deflection at the tip, using the Moment-Area theorems. The beam has a stiffness of EI, and its own weight is neglected.

Calculations and Diagrams:

Exercise II



2. Referring to <u>Figure II</u>, calculate the slopes at A and B, the slope and deflection at C, the slope and deflection at the mid point, and the maximum deflection in the beam.

Calculations and Diagrams:

Calculations and Diagrams (cont'd):

Calculations and Diagrams (cont'd):