CE 317 **STRUCTURAL MECHANICS II** Autumn 2009

**Tutorial Sheet #7**

**Assigned on Thursday, September 24**

1. For the frame shown in **Figure 1**, draw the *bending moment*, *shear force* and *axial force diagrams*. Joint displacements subjected to the given loading are found to be:

Node 2: X = 2.449 mm, Y = –0.12 mm, R = –0.003
Node 3: X = 2.409 mm, Y = –0.109 mm, R = 0.002

For all the members, take $E = 2.17185\times10^7$ kN/m$^2$ and $\nu = 0.17$. All the members have a square cross section of 0.3 m×0.3 m.