Homework 3

For the side frame on the following sheet

A. Compute the vehicle bending deflection .



- •All metal thickness are .040 in
- •Material Mild Steel
- •Neglect Flanges All sections are closed
- •Sections are normal to beam axis
- •All joints rigid except as noted

B. If the value for computed in (A) exceeds the deflection requirement, which beam would you alter first and why?

C. Compute (Gt)_{EFF} for torsion. Take Q=1650Lb

D. If the value for $(Gt)_{EFF}$ computed in (C) is too low compared to the requirement, which beam would you alter first and why?









