

Assignment # 1

The bar shown in figure, find

1. Equation for deflection due to self weight using Exact solution
2. Equation for stress due to self weight using Exact solution
3. Deflection using Approximate solution. Divide bar in 5x1 mesh as shown
4. Stress using Approximate solution.
5. Plot Deflection vs Length for both Exact and Approximate Solution and compare
6. Plot Stress vs Length for both Exact and Approximate Solution and compare

