- 1. Modify program EX981 to accommodate the 4 node rectangular element with distributed loading and weight.
- 2. Perform numerical analysis for the following beam. Show the FE analysis results.
- 3. Compare the results with the results from the beam theory: deflection, and the magnitudes of normal stress and shearing stress.



## Project II Due June 1

- 1. Modify the program of project I to accommodate the 4 node quadrilateral (irregular) element using isoparametric formulation.
- 2. Perform numerical analysis for the same beam. But, in the modeling, use irregular element shape instead of rectangular elements.
- 3. Compare and discuss the results of projects I and II.