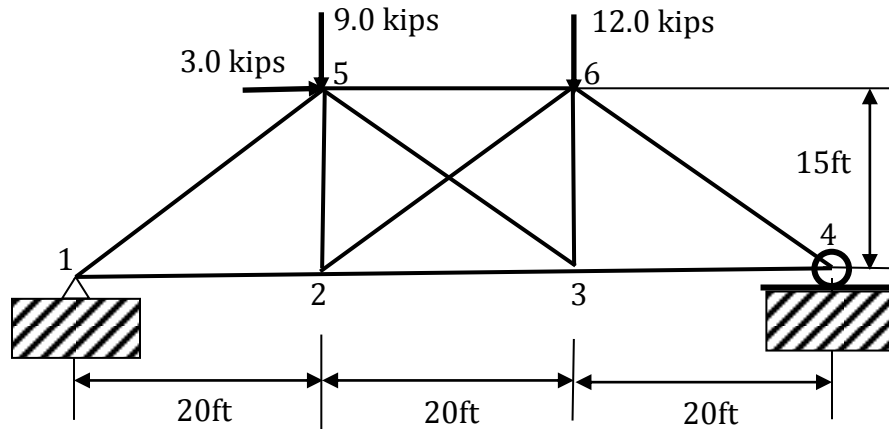


Computer Assignment #1. Due October 16, 2018

Use finite element method to analyze the following planar truss structure. All truss members are considered linear elastic.



Cross-sectional area is 1.0 ft^2 ; $E = 30 \times 10^6 \text{ psf (lb/ft}^2\text{)}$

1. Obtain displacements at all nodes.
2. Obtain reaction forces at the supports.
3. Obtain axial stress in all members.