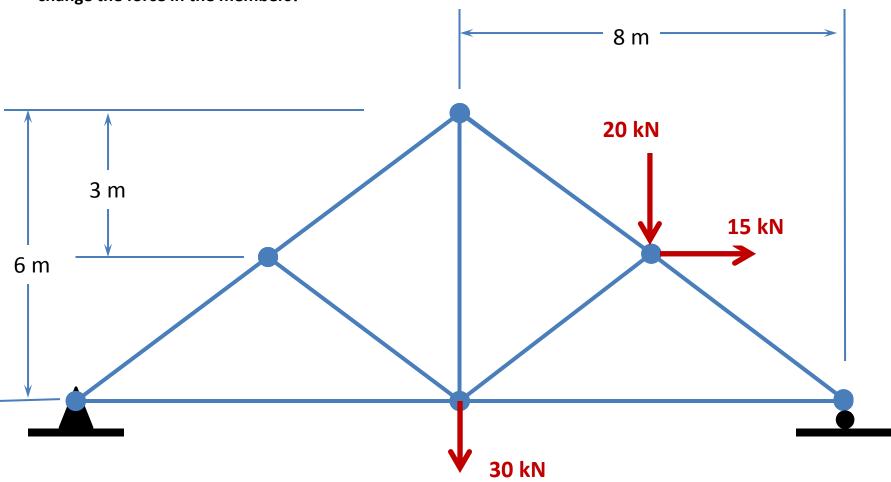
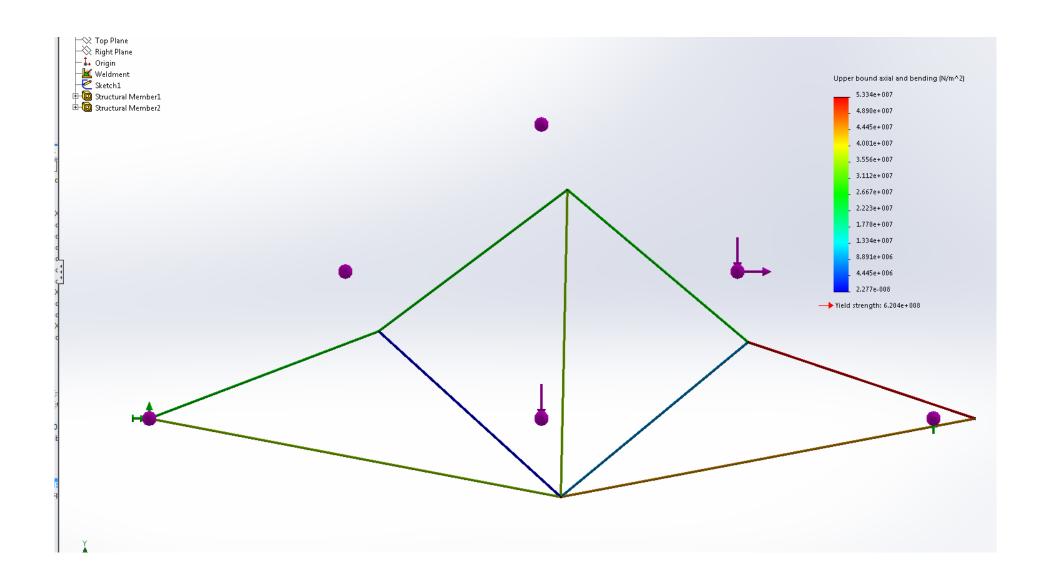
Use SolidWorks Simulation to determine

- 1. The force in each member of the truss.
- 2. The reactions at A and B.

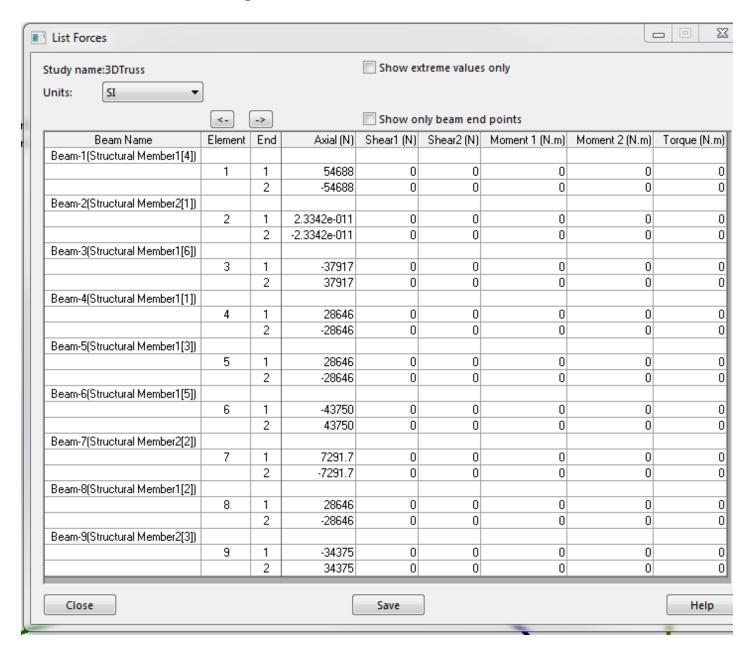
Use any pipe Structural Member, Alloy Steel as the material, and answer the question: Does the cross-section change the force in the members?



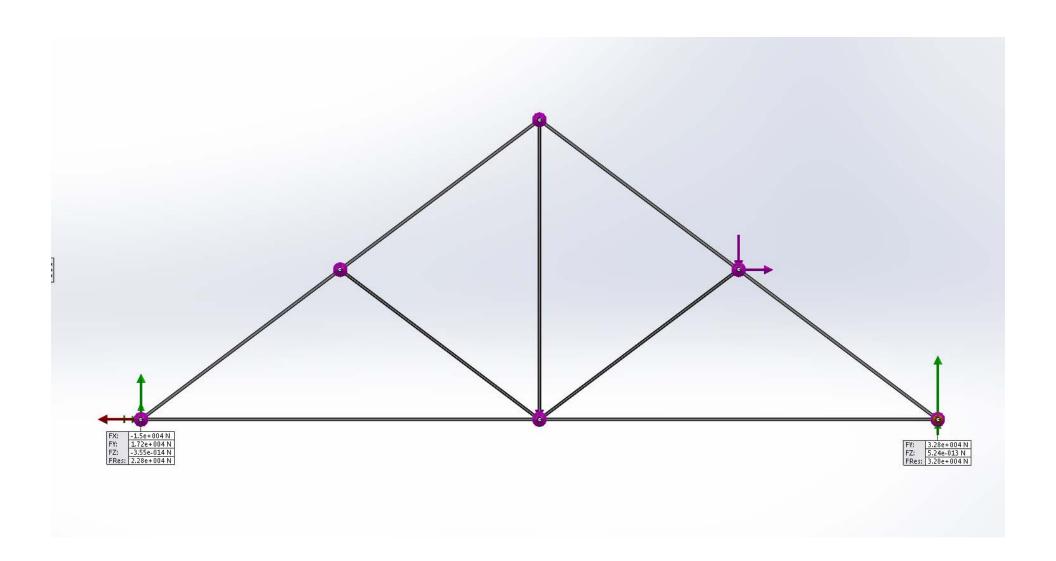
SOLUTION: Setting up the problem in SolidWorks Simulation and running the FEA Solver generates the following result.



Under the Simulation Feature Manager, with the Right-Mouse-Button select "Results" and then select "List Beam Forces" to generate a table of loads on each element of the truss.



Under the Simulation Feature Manager, with the Right-Mouse-Button select "Results" and then select "List Resultant Forces" to show the reactions where the constraints are applied.



Under the Simulation Feature Manager "Results" tree, with the Right-Mouse-Button select "Probe" and then select members on the truss to show the stress in the member.

The stress in a member is a function of the cross-section; however, the force in each member is independent of cross-section.

