

Recitation Group Project – Trusses

Group 5

Consider the truss shown below. Determine the force in each of the members using the method of joints. You may take advantage of symmetry in your analysis. If you identify your truss as indeterminate, please inform me of the degree of indeterminacy, and I will provide your group with an equal number of member forces so that you can complete the analysis.

To check the directional sense of your forces (whether you have determined compressive vs. tensile forces correctly), build a scale model of the truss. Let 1 ft = 1 in.

Use wooden truss members for all compressive members, and chains (or twine) as tensile members. Your model **MUST** be built to match your calculations – if you have calculated a member force to be tensile, you **MUST** use a chain as the tension member. You may use wooden members for any zero force members that you identify.

Your truss will be load tested before the end of recitation.

