

**PS #4****Due: 2/23/10 Tue Lab****Due: 2/26/10 Fri Lab**Objectives

1. To determine the forces and displacements of a truss problem.
2. Extend the 1-D element to a 2-D domain using the transformation matrix.

The Problem

Find a 2-D truss you like and show it to me. If the truss comes already solved, (maybe using some energy method), that is OK. The truss must have a minimum of 7 joints and be **both** internally and externally indeterminate. Solve the truss using your own FEA spreadsheet for deflections, support reactions, element forces, element stresses and plot the deflected shape in your spreadsheet. Save it for a later homework.