ASEN 5007 Introduction to Finite Element Methods Fall 2013 Homework Assignment #2 (Chapters 4-5 of Notes)

Due Thursday Sep 12, 2013 on-campus students; Sep 19, 2013 for CAETE students

Please do not forget to attach this cover sheet to your returned homework and write the group names on it

Four exercises:

4.5 (requires some programming, see note below)

5.1 (short)

5.2

5.3 or 5.4 (pick one)

Grading weights: listed at the start of each exercise.

Homework presentation guidelines are posted on web site; also on the back of HW#1 assignment. For presentation of computer work please see those guidelines.

The *Mathematica* Notebook file ExampleTruss.nb is available on the web. [Go to index of Chapter 4 and click on the link for downloading the source. If you experience trouble with that file (some browsers are sensitive to file extensions) click on the link with file extension.txt]

Ex 5.4 uses the notion of direction cosines. If rusty in that topic, reread any Calculus book that defines those quantities in 3D.