

ME 478 Homework #1

Due: April 3rd, 2012 before class.

Please show your work and draw a box around your answer to receive full credit.

Readings: Chapter 1.1-5, Chapter 2 (review of Linear Algebra), Appendix F (Intro to Matlab)

- 1) Chapter 1, Problem 2. Use Matlab to solve and submit your DIARY file along with your hand-written work for the problem. Draw boxes around the output for the displacement matrix and the internal stresses in each element.
- 2) Chapter 2, Problem 1.

For problems 3-6, do them by hand and show all your work to receive full-credit. You are welcome and encouraged to use Matlab to check your answers, but you will be graded on the hand-written calculations.

- 3) Chapter 2, Problem 4.
- 4) Chapter 2, Problem 6.
- 5) Chapter 2, Problem 11.
- 6) BONUS: Chapter 2, Problem 14