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2.094 Finite Element Analysis of Solids and Fluids
Spring 2008

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2.094
FINITE ELEMENT ANALYSIS OF SOLIDS AND FLUIDS
SPRING 2008

Homework 10

Instructor: Prof. K. J. Bathe

Assigned: 05/06/2008
Due: 05/13/2008

Problem 1 (10 points):

Consider page 683 in the textbook. Show that using the principle of virtual temperatures to solve Eq. (7.94), with 2-node elements, the relation in Eq. (7.97) is obtained.

Problem 2 (20 points):

Exercise 5.41 in the textbook, page 452.