2.092/2.093 COMPUTER METHODS IN DYNAMICS FALL 2006

Homework 8

Instructor:	Prof. K. J. Bathe	Assigned:	Thurs., Nov 9
TA:	Samar Malek	Due:	Thurs., Nov 16

Problem 1 (20 points):

Consider the plane stress problem below. The initial displacement and velocity are zero.



- a) Calculate the lowest six frequencies.
- b) Calculate the response of the structure using the trapezoidal rule and mode superposition.
- c) Make sure your results make physically sense. Compare and discuss your results.

Problem 2 (10 points):

Exercise 9.4, textbook p. 784.