- Problem Set 1 due at the end of class 9/25/03

 From S. Suresh, Fatigue of Materials, page 328

 1: Problem 9.1

 2: Problem 9.2
 - 2: Problem 9.2 3: Problem 9.4 4: Problem 9.5

Question 5: In class, we discussed the approach to deriving the stresses, strains, and displacements for a linear elastic crack subjected to Mode III loading. Derive the spatial distribution of stresses and displacements for the Mode III

crack. Compare your results with Equations 9.49 and 9.50.