HOMEWORK #8, DUE 12-2

MATH 504A

1. Compute the character table of the alternating group A_4; this will be the first character table you have computed that involves nonreal numbers.

2. Compute the character table of S_4, using that the tensor product of irreducible representations is irreducible whenever one or both of them have dimension one.

3-5: Dummit and Foote, 17.3.3-5, p. 822.