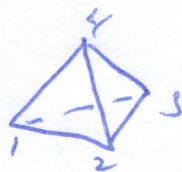


1) Homework set # 9, due November 4

- a) Determine the tetrahedral group is the group that leaves the tetrahedron invariant.



Hint: Including the identity, it has 12 elements.

- b) Determine its conjugacy classes.

Hint: Write the symmetries in terms of permutations. Note that there are four conjugacy classes.

- c) Determine the character Table of the tetrahedral group.

2) Do Exercise 17.14

- 3) Determine the character table of Z_4