NAME: Tianyi He E-MAIL ADDRESS: th586@scarletmail.rutgers.edu

Part I. I. Who were the two genuises who proved the impossibility of a formula for solving a quinic? Abel and Gabois

- 2. Find a way to place 31 domino piece, and cover completely an 8 by 8 square, where two opposite have been removed ? It is impossible.
  - 3. At what ages did the above geniuses did? Abel: 27, Galois 21.
- 4. What university did the most in the classification of simple groups and have quite a few faculy members with groups named after them?

So the product: 
$$(1234567)$$
  
 $(6754312)$   
 $2 \cdot \pi^2 = (1234) \pi^3 = (1234) \pi^4 = (1234)$ ,  
 $Which is the identity permutation$ .  
 $3 \cdot (132) (45)$   
 $(321) (45)$   
 $7 \ln s mallest i = 2x3=6$   
 $4 \cdot (31254) \pi^{-1} = (12345)$   
 $(12345) \pi^{-1} = (12345)$