$$\frac{1}{13} + \frac{1}{13} + \frac{1}{13}$$

1.13 #6 5how every nonabelian gr of order 6 is isomorphic to
$$S_3$$
.

 $N_2 = 1$ 4 $N_3 = 1$ \longrightarrow bad

Recall:

$$(x) = Gx = \{gxg^{-1} \mid g \in G\}$$

Gool: describe conj classes of Sn.

disjoint
Cycles

for
$$\sigma \in S_n$$
, $\sigma = \Pi_i \cdot \Pi_i$

Thus ay de type
$$(K_1, ..., K_p)$$
 with $K_1 \ge ... \ge K_r$ and $\sum_{i=1}^{N} K_i = n$.

· Conj. each cycle: do ai'= dT, ai a Tzai ... a Ttai.

Claims: o, t are con; iff o, t have same eycle type

Clarim2: conj. classes of Sn ⇔ > n