

Recall:

Thm 5.1: Every permutation of a finite set can be written as a cycle or as a product of disjoint cycles.

Thm 5.2: If the pair of cycles $\alpha = (a_1 a_2 \dots a_m)$ and $\beta = (b_1 b_2 \dots b_n)$ are disjoint, then $\alpha\beta = \beta\alpha$.

Lemma: If α is an cycle of length n , then α has order n .

October 4, 2004