

alternating group of degree (n)

[MTH312] If $(f, g \in S_n)$ are odd, then (fg) is _____
prime

[MTH312] One of these is not algebraic structure of group G if G is an Abelian group of order 8
 (Z_{2^3})

[MTH312] An isomorphism onto itself is called _____
Automorphism

[MTH312] Let $(o(G) = p^2)$, then G is Abelian if (p) is _____
prime

[MTH312] In the theory of permutations, 2-cycles are called _____
Transpositions

[MTH312] The identity permutation is _____
even

[MTH312] Express $(1\ 3\ 5)$ cycle as product of transpositions
 $(1\ 5)(1\ 3)$

[MTH312] What is the signature of $(1 \in S_n)$
1

[MTH312] A group G is called simple if it has only normal subgroups
 $\{e\}$ and G itself