THE COMMUTATOR SUBGROUP IS NORMAL – PRACTICE

Definition: The commutator or derived subgroup of a group G, denoted by G', is the set of all finite products of commutators in G where a commutator is a product of either the form $a^{-1}b^{-1}ab$ or $aba^{-1}b^{-1}$.

Theorem: The commutator (or derived) subgroup of a group G is normal in G.

Proof: