171 — Homework 2 Ricardo J. Acuna (862079740)

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Aditional Excercises	
1	Let G be a group and $a \in G$. Prove that $(a')' = a$.
2	Let $\langle S, * \rangle$ be a binary algebraic structure and define $\operatorname{Aut}(S)$ be the set of isomorphism from S to S . That

 $\operatorname{Aut}(S) = \{ f : S \to S | f \text{ is an automorphism} \}$

is,

Prove that $\operatorname{Aut}(S), \circ \rangle$ is a group, where \circ is the usual function composition. You don't need to prove that \circ is associative (this is well-known) and you may use results used in class as long as you cite them.