

AN IMPORTANT BIJECTION – PRACTICE

Theorem: Let G be a group, let $g \in G$, and define a function $T_g : G \rightarrow G$ by $T_g(x) = gxg^{-1}$. Then $T_g : G \rightarrow G$ is a one-to-one and onto function, or in other words, a bijection.

Proof: