SUBGROUP OF A GROUP – PRACTICE

<u>Theorem</u>: Let *G* be a group and let *H* be a subset of *G*. If for every $a \in H$ we have that $a^{-1} \in H$ and if for every $a, b \in H$ we have that $ab \in H$, then *H* is a subgroup of *G*.

Proof: