

Groupes (compléments)



→ Lagrange: $H \text{ sog de } G \Rightarrow |H| \mid |G|$

→ φ morphisme de groupe: $G \rightarrow G'$

$$G/\text{Ker } \varphi \cong \text{Im } \varphi$$

→ $C(a) = \{x \in G \mid xa = ax\} \mid O(a) = \{xax^{-1} \mid x \in G\}$

$$G/C(a) \cong O(a)$$

→ Th de Cauchy [Stuce!]
 p premier, $p \mid |G| \Rightarrow \exists a \in G : o(a) = p.$