

p-groups

Definition

Let G be a finite group, and p a prime.

Definition

G is a p -group if $|G|$ is a power of p .

Definition

A subgroup $H \subset G$ is called a p -subgroup if H is a p -group.

Definition

A p -subgroup $H \subset G$ is called a p -Sylow subgroup if $(G : H)$ is relatively prime to p .