



Math for the people, by the people.

π -groups and π' -groups

Canonical name	pigroupsAndpigroups
Date of creation	2013-03-22 13:17:51
Last modified on	2013-03-22 13:17:51
Owner	Algeboy (12884)
Last modified by	Algeboy (12884)
Numerical id	9
Author	Algeboy (12884)
Entry type	Definition
Classification	msc 20D20
Classification	msc 20F50
Defines	π -group
Defines	π' -group

Let π be a set of primes. A torsion group G is called a π -group if each prime dividing the order of an element of G is in π and a π' -group if none of them are. Typically, if π is a singleton $\pi = \{p\}$, we write p -group and p' -group for these.

Remark. If G is finite, then G is a π -group if every prime dividing $|G|$ is in π .