



Math for the people, by the people.

abnormal subgroup

Canonical name	AbnormalSubgroup
Date of creation	2013-03-22 16:28:15
Last modified on	2013-03-22 16:28:15
Owner	yark (2760)
Last modified by	yark (2760)
Numerical id	4
Author	yark (2760)
Entry type	Definition
Classification	msc 20E99
Defines	abnormal
Defines	abnormality

A subgroup H of a group G is called an *abnormal subgroup* if $x \in \langle H, xHx^{-1} \rangle$ for all $x \in G$.

Some facts about abnormal subgroups:

- Abnormal subgroups are pronormal and self-normalizing.
- Non-<http://planetmath.org/NormalSubgroup>normal maximal subgroups are abnormal.
- The normalizer of a pronormal subgroup is abnormal.