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a nontrivial normal subgroup of a finite p -group G and the center of G have nontrivial intersection

Canonical name	ANontrivialNormalSubgroupOfAFinitePgroupGAndTheCenterOfGHaveNont
Date of creation	2013-03-22 14:21:05
Last modified on	2013-03-22 14:21:05
Owner	gumau (3545)
Last modified by	gumau (3545)
Numerical id	4
Author	gumau (3545)
Entry type	Theorem
Classification	msc 20D20

Let G be a finite p -group, and let H be a nontrivial normal subgroup of G . Then $H \cap Z(G) \neq \{1\}$.