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## Frattini argument

Canonical name	FrattiniArgument
Date of creation	2013-03-22 13:16:02
Last modified on	2013-03-22 13:16:02
Owner	bwebste (988)
Last modified by	bwebste (988)
Numerical id	5
Author	bwebste (988)
Entry type	Theorem
Classification	msc 20D20

If  $H$  is a finite normal subgroup of a group  $G$ , and  $S$  is a Sylow subgroup of  $H$ , then  $G = HN_G(S)$ , where  $N_G(S)$  is the normalizer of  $S$  in  $G$ .