



Math for the people, by the people.

essential subgroup

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A subgroup  $H$  of a group  $G$  is *essential* if  $H \cap K \neq \{e\}$  for any subgroup  $K$  of  $G$ ,  $K \neq \{e\}$  (i.e., a subgroup  $H$  of  $G$  is called essential if it intersects non-trivially every non-trivial subgroup of  $G$ ).