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section of a group

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Synonym	section
Synonym	quotient of a subgroup
Defines	involved in

A *section* of a group G is a `http://planetmath.org/QuotientGroup`quotient of a subgroup of G. That is, a section of G is a group of the form H/N, where H is a subgroup of G, and N is a normal subgroup of H.

A group G is said to be *involved in* a group K if G is isomorphic to a section of K.

The relation 'is involved in' is `http://planetmath.org/Transitive3`transitive, that is, if G is involved in K and K is involved in L, then G is involved in L.

Intuitively, 'G is involved in K' means that all of the structure of G can be found inside K.