


Commutator and derived group.

$a, b \in G$. define $[a, b] = aba^{-1}b^{-1}$ commutator of a & b
derived group generated by all commutators of G , denoted G'
define $G^{(1)} = G'$

Solvable group.

Among $G \supset G^{(1)} \supset \dots \supset G^{(n)} = \{1\}$ min (n) is derived length.