


Commutator and derived group.

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

Solvable group.

Among $G \triangleright G^{(0)} \triangleright \dots \exists G^{(n)}$ } min (n) is derived length.