

عنوان مقاله:

Some criteria for solvability and supersolvability

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خلاصه مقاله:

Denote by G a finite group, by $\text{hsn}(G)$ the harmonic mean Sylow number (eliminating the Sylow numbers that are one) in G and by $\text{gsn}(G)$ the geometric mean Sylow number (eliminating the Sylow numbers that are one) in G . In this paper, we prove that if either $\text{hsn}(G) < 45/7$ or $\text{gsn}(G) < \sqrt[3]{300}$, then G is solvable. Also, we show that if either $\text{hsn}(G) < 24/7$ or $\text{gsn}(G) < \sqrt{12}$, then G is supersolvable.

کلمات کلیدی:

Finite group, Sylow subgroup, solvable groups

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