

A research on the minimum prime quadratic residue modulo a prime

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Abstract: In this paper, we consider the upper bound for the minimum prime quadratic residue modulo a prime and give the asymptotic formula for $\sum_{\substack{p \leq x \\ f(p)=r}} 1$ (r is a prime).

Key words Prime; Quadratic residue; Upper bound; Asymptotic formula.