Properties of Some Functions Connected to Prime Numbers

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Abstract:

Let θ and ψ be the Chebyshev functions. We denote

$\psi_2(x) = \psi(x) - \theta(x)$ and $\rho(x) = \psi(x)/\theta(x)$. We study subadditive

and Landau-type properties for $\theta, \psi,$ and ψ_2. We show that ρ is

subadditive and submultiplicative. Finally, we consider the prime counting

function $\pi(x)$ and show that

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