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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 θ, ψ , 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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