

INEQUALITIES FOR THE RIEMANN ZETA FUNCTION ON THE POSITIVE REALS

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Abstract. In this paper we obtain a sequence of inequalities regarding the Riemann zeta function and its derivative. The simplest special cases of this gives $-\zeta'(s) < \frac{1}{(s-1)^2}$ for $s > 0$ and $\zeta(s) > \frac{1}{s-1} + \gamma$ for $s > 1$.

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