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Notes on the Zeros of Riemann's Zeta Function

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Abstract

The functional equation for Riemann's Zeta function is studied, from which it is shown why all of the non-trivial, full-zeros of the Zeta function $\zeta(s)$ will only occur on the critical line $\sigma = 1/2$ where $s = \sigma + I\rho$, thereby establishing the truth of Riemann's hypothesis. Further, two relatively simple transcendental equations are obtained; the numerical solution of these equations locates all of the zeros of $\zeta(s)$ on the critical line.

NOTE: The arXiv preprint library has finally agreed to post this paper.

Anyone interested can download the most recent revision from:

http://arxiv.org/PS_cache/arxiv/pdf/0911/0911.1332v2.pdf

Thank you for your interest.