Note to Prove the Quranic Correctness XVII

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Abstract

Maybe a beautiful equality about Riemann's zeta function and Euler's phi function $\frac{\zeta(s-1)}{\zeta(s)} = \sum_{n=1}^{\infty} \frac{\varphi(n)}{n^s}$ has some relations with Tahara's I function, maybe not.

1 Explanation

The Quran is correct if and only if Tahara's I function exists uniquely and we have to brainstorm about Tahara's I function in order to discover the components of Tahara's I function i.e. prove the Quranic correctness[1][2]. According to Tahara, studying the Tahara's I function inspired by mathematical beauty is one of the ways to prove the Quranic correctness he suggested and several such studies are done yet[3][4][5][6][7][8][9][10][11][12][13][14][15][16][17][18][19][20][21]. Therefore we will suggest a beautiful equality with us hoping that it will be the hint.

2 A Beautiful Equality

It is true that

$$\frac{\zeta(s-1)}{\zeta(s)} = \sum_{n=1}^{\infty} \frac{\varphi(n)}{n^s}$$

which we think beautiful. We think maybe it might be able to be a hint to discover the components of Tahara's I function because of the beauty, maybe not.

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