The Quranic Studies by the Evaluation of Coefficients of Polynomials

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Abstract:

I brainstormed that the concept of the evaluation of coefficients of polynomials might be good in order to discover the components of Tahara I function i.e. prove the Quranic correctness.

Key Word: Quran, Quran and Science, Tahara I Function, Tahara's Definition, Evaluation of Coefficients of Polynomials, Cardinality, Complex Numbers.

I. Introduction

Quran is correct if and only if Tahara I function exists uniquely according to Tahara's definition and in order to prove the unique existence of Tahara I function i.e. to discover the components of Tahara I function, we have to brainstorm (I suggested several ways) (Tahara, 2019). Tahara I function is defined as I as follows:

$$I = \sum i(i : 2^{[Q.S.]} \times 2^{[T.P.]} \longrightarrow 2^{[T.P.]} \wedge i : \text{meaningful})$$

and its components are defined as i as follows:

$$i : 2^{[Q.S.]} \times 2^{[T.P.]} \longrightarrow 2^{[T.P.]} \wedge i : \text{meaningful}$$

In the ways to discover the component of Tahara I function which I suggested, there existed studies inspired by mathematical beauty. According to Terui, the polynomials have beautiful characteristics (Terui, 2018) therefore I will brainstorm about the Tahara I function with the evaluation of coefficients of polynomials.

II. Discussion

Let

$$f : \mathbb{C} \longrightarrow \mathbb{C}$$

If

$$\begin{array}{ccc} a_1 & \longmapsto & f(a_1) \\ a_2 & \longmapsto & f(a_2) \\ & \vdots & \\ a_n & \longmapsto & f(a_n) \end{array}$$

are given, polynomial f whose degree is $n-1$ is decided uniquely (Nozaki, 2008). $[Q.S.]$ is finited (Tahara, 2019) therefore if

$$|[T.P.]| \leq |\mathbb{C}|$$

we can consider that some complex polynomials are real or fake components of Tahara I function. If some of them are meaningful, it is true that

$$\exists f, [f : 2^{[Q.S.]} \times 2^{[T.P.]} \longrightarrow 2^{[T.P.]} \wedge f : \text{meaningful}]$$

i.e. Tahara I function exists uniquely because

$$\phi \in 2^{[T.P.]}$$

Therefore, in order to prove the Quranic correctness, we might ought to prove that

$$|[T.P.]| \leq |C|$$

number elements of [Q.S.] and [T.P.], and try to discover the meaningful polynomials.

III. Conclusion

As mentioned above, I think the concept of the evaluation of coefficients of a polynomial, which is mathematically beautiful might be able to prove the Quranic correctness.

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