

New techniques on solving systems of nonlinear difference equations

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This paper provides new techniques on solving some systems of difference equations. These techniques are more analytical and more explanatory as compared to methods used in existing literatures. We applied these methods particularly to the systems studied by Touafek in his paper [4]. We found out that these strategies can be used also in solving other systems that are closely related to our work. Interestingly, some of the systems are found to possess closed-form solutions that consist of intriguing integer sequences, such as those found in nature and polyenoids.

References

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