## CORRECTION TO MY PAPER

# "CHARACTERIZATION OF THE IDENTITY FUNCTION WITH AN EQUATION FUNCTION" 

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The above mentioned paper was published in the same journal 52 (2021) 195-216. The Conjecture 1 on page 196 is not correct. We would like to correct this as follows:

Conjecture 1. Assume that an arithmetical function $f: \mathbb{N} \rightarrow \mathbb{C}$ and $D \in \mathbb{N}$ satisfy the following equation

$$
f\left(n^{2}+D n m+m^{2}\right)=f^{2}(n)+D f(n) f(m)+f^{2}(m) \quad \text { for every } \quad n, m \in \mathbb{N} .
$$

Then one of the following assertions holds:

- $f(n)=0$ for every $n \in \mathbb{N}$,
- $f(n)=\frac{1}{D+2} \quad$ for every $\quad n \in \mathbb{N}$,
- $f(n)=n \quad$ for every $\quad n \in \mathbb{N}$.


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