Erratum

Erratum to: On a functional equation on groups with an involution related to quadratic polynomials in two variables

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Theorem 2.1 cited from [2] in our paper does not hold as stated. It should be replaced by the following trivial result.

Theorem 2.1. *Let G be a group and $\mathbb{K}$ be a field of characteristic different from 2. If the central function $f : G \rightarrow \mathbb{K}$ is a solution of*

$$f(xy) + f(yx) = 2f(x) + 2f(y) \quad (1)$$

for all $x, y \in G$, then $f \in \text{Hom}(G, \mathbb{K})$. The converse is also true.

Note that if f is not central this result does not hold. Since we relied on this theorem for all our results, the unknown functions f, f_1, f_2 in Theorems 2.2, 2.3, 3.1 and Corollary 3.2 need to be assumed to be central.

Even with this additional condition our results still extend the known results from [1].

The online version of the original article can be found under doi:10.1007/s00010-015-0367-x.

References

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- [2] Corovei, I.: Some functional equations for homomorphisms. Bul. St. Inst. Polit. Cluj-Napoca, Series Mat. Fiz. Mec. Ap. **22**, 14–19 (1979)

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