Erratum to: n -Fold implicative basic logic is Gödel logic

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Unfortunately, there are some errors in the online published article.

1. The proof of Proposition 5 is wrong. Equation (10) can be utilized only if the power of an element x is n , not if it is $n - 1$ as is done in the proof. Moreover, an $n + 1$ element Lukasiewicz chain is an explicit example that Proposition 5 does not hold: $\{1\}$ is an n -fold implicative filter in that algebra, however, the Lukasiewicz product is not idempotent.
2. Corollary 6, Theorem 8 and Theorem 9 are based on Proposition 5, therefore also they do not hold. Since

Gödel logic trivially satisfies axiom (12), we can only say that Gödel logic is an example of n -fold implicative basic logic, however, n -fold implicative basic logic is not, in general, Gödel logic, contrary to the claim in Theorem 9.

3. The inaccuracy of Proposition 5 also implies that the problem of the relation of n -fold implicative basic logic and n -fold positive implicative basic logic remains open, contrary to what is alleged in the Conclusion.

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