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Author(s) with the full form of name(s)

Abstract

In this paper

1. Introduction

A groupoid is *medial* if it satisfies the identity $wx \cdot yz = wy \cdot xz$. A groupoid is *trimedial* if every subgroupoid generated by 3 elements is medial.

In [1] it is proved that a quasigroup satisfying the following three identities must be trimedial.

$$xx \cdot yz = xy \cdot xz \tag{1}$$
$$yz \cdot xx = yx \cdot zx \tag{2}$$
$$(x \cdot xx) \cdot uv = xu \cdot (xx \cdot v) \tag{3}$$

The converse is trivial, and so these three identities characterize trimedial quasigroups. Here, we show that, in fact, (2) and (3) are sufficient to characterize this variety (as a subvariety of the variety of quasigroups).

2. Medial quasigroups

Theorem. *Let G be a quasigroup...*

Proof. If G is a quasigroup...

$\square$

Corollary. *Let G be a quasigroup...*

Remark. It is only an example. The paper accepted for publication in our journal must be prepared in Latex, Amstex or similar style preserving the general convention presented in this form.

References

[1] **T. Kepka**: *Structure of triabelian quasigroups*, Comment. Math. Univ. Carolin. **17** (1976), no. 2, $229 - 240$.

Full address, for example
Institute of Mathematics
Technical University of Wrocław
Wybrzeże Wyspiańskiego 27
50-370 Wrocław
Poland
e-mail: dudek@im.pwr.wroc.pl