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Realizations of Loops and Groups defined by short identities

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Abstract: In a recent paper, those quasigroup identities involving at most three variables and of “length” six which force the quasigroup to be a loop or group have been enumerated by computer. We separate these identities into subsets according to what classes of loops they define and also provide humanly-comprehensible proofs for most of the computer-generated results.

Keywords: quasigroup identity, loop, group

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