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Retracts and Q -independence. (English) [Zbl 1131.08003](#)
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Summary: A non-empty set X of a carrier A of an algebra \mathbf{A} is called Q -independent if the equality of two term functions f and g of the algebra \mathbf{A} on any finite system of elements a_1, a_2, \dots, a_n of X implies $f(p(a_1), p(a_2), \dots, p(a_n)) = g(p(a_1), p(a_2), \dots, p(a_n))$ for any mapping $p \in Q$. An algebra \mathbf{B} is a retract of \mathbf{A} if \mathbf{B} is the image of a retraction (i.e. of an idempotent endomorphism of \mathbf{B}). We investigate Q -independent subsets of algebras which have a retraction in their set of term functions.

MSC:

[08B20](#) Free algebras

[08A40](#) Operations and polynomials in algebraic structures, primal algebras

[06D15](#) Pseudocomplemented lattices

Keywords:

[term function](#); [\$Q\$ -independence](#); [retraction](#); [Stone algebra](#); [skeleton](#); [Glivenko congruence](#)

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