

On Division and Regular Algebras with Functional Equations

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Functional equations are equations in which the unknown (or unknowns) are functions. We consider equations of generalized associativity, mediality (bisymmetry, entropy), paramediality, transitivity as well as the generalized Kolmogoroff equation. The usefulness of all of them were proved in applications both in mathematics and in other disciplines, particularly in economics and social sciences. We use unifying approach to solve these equations for division and regular operations generalizing the classical quasigroup case.