

TRI-QUASI IDEALS OF Γ -SEMIRINGS

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Abstract

In this paper, as a further generalization of ideals, we introduce the notion of tri-quasi ideal as a generalization of ideal, left ideal, right ideal, bi-ideal, quasi ideal, interior ideal, bi-interior ideal, weak interior ideal, bi-quasi ideal, tri-ideal, quasi-interior ideal and bi-quasi-interior ideal of Γ -semiring. Some characterizations of Γ -semiring, regular Γ -semiring and simple Γ -semiring using tri-quasi ideals are given and study the properties of tri-quasi ideals of Γ -semiring.

Keywords: bi-quasi-interior ideal, bi-interior ideal, bi-quasi ideal, bi-ideal, quasi ideal, interior ideal, regular Γ -semiring, tri-quasi simple Γ -semiring.

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