

RIGHT DERIVATION OF ORDERED Γ -SEMIRINGS

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Abstract

In this paper, we introduce the concept of a right derivation of ordered Γ -semirings, we study some of the properties of right derivations of ordered Γ -semirings and we prove that if d is a non-zero right derivation of additively commutative cancellative prime ordered Γ -semiring M then M is a commutative ordered Γ -semiring.

Keywords: ordered Γ -semiring, right derivation, derivation, negatively ordered Γ -semigroup, positively ordered Γ -semigroup.

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