

COMMUTATIVITY OF ACCESSIBLE RINGS

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Abstract

In an accessible ring R , we prove that $(v(x, y, z), w) = 0$ holds for all v, x, y, z, w in R and the set $S = \{s \in R / (s, R) = 0 = (sR, R)\}$ is an ideal of R . Using these in this paper we prove that a 3-divisible simple accessible ring R is commutative. Also it is shown that R is isomorphic to a sub-direct sum of an associative ring and a commutative ring.

Key Words : *Accessible ring, Simple ring, 3-divisible ring, Flexible law, Center.*

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