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**Rings satisfying the generalized
polynomial identity $(x - x^n)([x, y]_k - [x, y]_k^n) = 0$ (**)**

0 - Introduction

Throughout, R will represent an associative ring with center C and Jacobson radical $J(R)$. If $(x_i)_{i=1, \dots, n}$ is a sequence of elements of R and k is a positive integer we define $[x_1, \dots, x_{k+1}]$ inductively as follows:

$$[x_1, x_2] = x_1 x_2 - x_2 x_1$$

$$[x_1, \dots, x_k, x_{k+1}] = ([x_1, \dots, x_k], x_{k+1}).$$

If $x_1 = x$ and $x_2 = \dots = x_{k+1} = y$, we write $[x_1, \dots, x_{k+1}] = [x, y]_k$. Also for $k = 0$ we define $[x, y]_0 = x$.

By a ring R with torsion-free commutators, we mean that $m[x, y] = 0$ implies $[x, y] = 0$ for all $m \geq 1$, $x, y \in R$.

A ring R is called left (resp. right) s -unital [8] if for each $x \in R$ we have $x \in Rx$ (resp. $x \in xR$). A ring R is called s -unital if for each x in R , $x \in xR \cap Rx$. If R is an s -unital ring, then for any finite subset F of R , there exists an element e in R such that $ex = xe = x$ for all $x \in F$ (see [8]). Such an element e will be called a pseudo-identity of F .

In [3] Hirano and Yaqub studied the rings satisfying $(x - x^n)(y - y^n) = 0$. Later in [7], Komatsu and Tominaga extended Theorem 3 of [3] as follows: If R is a ring satisfying $(x - x^n)(y - y^n) = 0$ ($n \geq 1$) and if for each $x, y \in R$, either

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Rings With Generalized Polynomial Identities

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