

AMIR H. YAMINI and SH. SAHEBI (*)

**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 $(x_i)_{i \in \mathbb{N}}$ 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

Y. Fong, U. Knauer, A. V. Mikhalev



Rings With Generalized Polynomial Identities:

Rings with Generalized Identities Konstant I. Beidar, Wallace S. Martindale, Alexander V. Mikhalev, 1995-11-17

Discusses the latest results concerning the area of noncommutative ring theory known as the theory of generalized identities GIs detailing Kharchenko's results on GIs in prime rings Chuang's extension to antiautomorphisms and the use of the Beidar Mikhalev theory of orthogonal completion in the semiprime case Provides novel proofs of existing results

Polynomial Identities in Ring Theory, 1980-07-24 **Polynomial Identities in Ring Theory** **Rings with Polynomial Identities and Finite Dimensional Representations of Algebras** Eli Aljadeff, Antonio Giambruno, Claudio Procesi, Amitai

Regev, 2020-12-14 A polynomial identity for an algebra or a ring A is a polynomial in noncommutative variables that vanishes under any evaluation in A . An algebra satisfying a nontrivial polynomial identity is called a PI algebra and this is the main object of study in this book which can be used by graduate students and researchers alike The book is divided into four parts Part 1 contains foundational material on representation theory and noncommutative algebra In addition to setting the stage for the rest of the book this part can be used for an introductory course in noncommutative algebra An expert reader may use Part 1 as reference and start with the main topics in the remaining parts Part 2 discusses the combinatorial aspects of the theory the growth theorem and Shirshov's bases Here methods of representation theory of the symmetric group play a major role Part 3 contains the main body of structure theorems for PI algebras theorems of Kaplansky and Posner the theory of central polynomials M. Artin's theorem on Azumaya algebras and the geometric part on the variety of semisimple representations including the foundations of the theory of Cayley Hamilton algebras Part 4 is devoted first to the proof of the theorem of Razmyslov Kemer and Braun on the nilpotency of the nil radical for finitely generated PI algebras over Noetherian rings then to the theory of Kemer and the Specht problem Finally the authors discuss PI exponent and codimension growth This part uses some nontrivial analytic tools coming from probability theory The appendix presents the counterexamples of Golod and Shafarevich to the Burnside problem

Rings and Nearrings Mikhail Chebotar, Yuen Fong, Weng-Fong Ke, Pjek-Hwee Lee, 2011-12-22 This volume consists of seven papers related in various matters to the research work of Kostia Beidar a distinguished ring theorist and professor of National Ching Kung University NCKU Written by leading experts in these areas the papers also emphasize important applications to other fields of mathematics Most papers are based on talks that were presented at the memorial conference which was held in March 2005 at NCKU

Polynomial Identities in Algebras Onofrio Mario Di Vincenzo, Antonio Giambruno, 2021-03-22 This volume contains the talks given at the INDAM workshop entitled Polynomial identities in algebras held in Rome in September 2019 The purpose of the book is to present the current state of the art in the theory of PI algebras The review of the classical results in the last few years has pointed out new perspectives for the development of the theory In particular the contributions emphasize on the computational and combinatorial aspects of the theory its connection with invariant theory representation theory growth

problems It is addressed to researchers in the field Advances in Ring Theory and Applications Shakir Ali,Mohammad Ashraf,Vincenzo De Filippis,Nadeem ur Rehman,2024-04-28 The book intends to be a collection of research papers on algebra and related topics most of which were presented at the international Workshop on Associative Rings and Algebras with additional structures WARA22 The purpose of the workshop WARA22 was to present the current state of the art both in the Theory of Lie structures of associative rings and algebras and in the Theory of functional identities in rings The conference has emerged as a powerful forum offering researchers the opportunity to meet get to know each other and discuss advances in ring theory inspiring further research directions The main topics covered refer to rings with involution Lie and Jordan structures rings and algebras arising under various constructions modules bimodules and ideals in associative algebras behavior of derivations automorphisms and other kinds of additive maps in rings and algebras All the contributing authors are leading international academicians and researchers in their respective fields The papers cover a wide range of topics in ring theory group theory matrix algebra and graph theory The book will serve both the specialist looking for the latest results and the novice looking for the appropriate references to access the study and understanding of the results presented here **The Algebraic Structure of Group Rings** Donald S. Passman,2011-01-01 Highly recommended by the Bulletin of the London Mathematical Society this book offers a comprehensive self contained treatment of group rings The subject involves the intersection of two essentially different disciplines group theory and ring theory The Bulletin of the American Mathematical Society hailed this treatment as a majestic account proclaiming it encyclopedic and lucid 1985 edition *Rings with Polynomial Identities and Finite Dimensional Representations of Algebras* Eliahu Aljadeff,A. Giambruno,Claudio Procesi,Amitai Regev,2020 Noncommutative algebra Universal algebra Symmetric functions and matrix invariants Polynomial maps Azumaya algebras and irreducible representations Tensor symmetry Growth Shirshov's theorem 2×2 matrices Matrix identities Structure theorems Invariants and trace identities Involutions and matrices A geometric approach Spectrum and dimension The nilpotent radical Finite dimensional and affine PI algebras The relatively free algebras Identities and superalgebras The Specht problem The PI exponent Codimension growth for matrices Codimension growth for algebras satisfying a Capelli identity **Azumaya Algebras, Actions, and Modules** Darrell Haile,1992 This volume contains the proceedings of a conference in honor of Goro Azumaya's seventieth birthday held at Indiana University of Bloomington in May 1990 Professor Azumaya who has been on the faculty of Indiana University since 1968 has made many important contributions to modern abstract algebra His introduction and investigation of what have come to be known as Azumaya algebras subsequently stimulated much research on such rings and algebras as well as applications to geometry and number theory In addition to honoring Professor Azumaya's contributions the conference was intended to stimulate interaction among three areas of his research interests Azumaya algebras group and Hopf algebra actions and module theory Aimed at researchers in algebra this volume contains contributions by some of the leaders in these areas **First**

International Tainan-Moscow Algebra Workshop Y. Fong,U. Knauer,A. V. Mikhalev,2016-11-21 No detailed description available for First International Tainan Moscow Algebra Workshop

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web simple machines worksheet answers match the simple machine with its correct definition by writing the corresponding number in the answer column definitions something that reduces the friction of moving something something that can hold things together or lift an object a ramp