

CONTENTS

Dorin Andrica and Eugen J. Ionascu	
On the number of polynomials with coefficients in $[n]$	13
Magdalena Bănescu	
On the function $\pi(x)$	25
Alina Bărbulescu	
Something about h - measures of sets in plane	35
Şerban Bărcănescu	
Combinatorics on Finite Fields: the sign repartition for the quadratic residues	41
Mihály Bencze	
About k -perfect numbers	45
Attila Bérczes and István Pink	
On generalized Lebesgue-Ramanujan-Nagell equations	51
Anca Iuliana Bonciocat, Nicolae Ciprian Bonciocat, Mihai Cipu	
Irreducibility criteria for compositions and multiplicative convolutions of polynomials with integer coefficients	73
Jan Chvalina and Sárka Hošková-Mayerová	
On certain proximities and preorderings on the transposition hypergroups of linear first-order partial differential operators	85
Irina Cristea	
Regularity of intuitionistic fuzzy relations on hypergroupoids.....	105
Tiberiu Dumitrescu and Alexandru Gica	
Euclidean quotient rings of $\mathbb{Z}[\sqrt{-5}]$	121
Cristian Ida and Sabin Mercheşan	
A note on coeffective 1-differentiable cohomology	127
Antonios Kalampakas, Stefanos Spartalis and Alexandros Tsigkas	
The Path Hyperoperation	141

Violeta Leoreanu-Fotea, Bijan Davvaz, Feng Feng and Codrina Chiper	
Join spaces, soft join spaces and lattices	155
Marin Marin and Olivia Florea	
On temporal behaviour of solutions in Thermoelasticity of porous micropolar bodies	169
Antonio Maturo and Fabrizio Maturo	
Finite geometric spaces, Steiner systems and cooperative games ..	189
Ali Mouhib	
Sur la 2-extension maximale non ramifiée de la \mathbf{Z}_2 -extension cyclotomique de certains corps quadratiques	207
Filip Najman	
Some rank records for elliptic curves with prescribed torsion over quadratic fields	215
Sergiy Plaksa and Roman Pukhtaievych	
Monogenic functions in a finite-dimensional semi-simple commutative algebra	221
Radovan Potůček	
Construction of the smallest common coarser of two and three set partitions	237
Andrei Rusu	
Infinitely many precomplete with respect to parametric expressibility classes of formulas in a provability logic of propositions	247
József Sándor	
On an Arithmetic Inequality	257
Diana Savin	
About some split central simple algebras	263
Doru Ţtefănescu	
On the factorization of polynomials over discrete valuation domains	273
Eugen Zaharescu	
Color Image Indexing Using Mathematical Morphology	281
Yuri Zelinskii	
Known results and open problems in hypercomplex convexity	289