CONTENTS

Sahar A. Aleid, Merce Mora and Maria Luz Puertas
Independent $[1, 2]$-number versus independent domination number .. 5

R. Ameri, M. Amiri-Bideshki, S. Hoskova-Mayerova and A. B. Saeid
Distributive and Dual Distributive Elements in Hyperlattices 25

Dorin Andrica and Vlad Crişan
On some special Legendre sums of the form $\sum_{x=1}^{p-1}\left(\frac{f(x)}{p}\right)\cdot g\left(x\right)$ 37

Nicolae Anghel
Square roots of real 3x3 matrices vs. quartic polynomials with real zeros 45

Waldo Arriagada and Jorge Huentutripay
Regularity, positivity and asymptotic vanishing of solutions of a $\phi-$ Laplacian 59

Kinkar Ch. Das and Carlos M. Da Fonseca
Some spectral bounds for the harmonic matrix 73

Cristian Dinu, Mihai Stancu, Daniela Dănciulescu
Some improvements of Holder's inequality on time scales 83

Adnan Karatas and Serpil Halici
Horadam Octonions 97

Piotr Kopacz
A note on generalization of Zermelo navigation problem on Riemannian manifolds with strong perturbation 107

Hidayet Huda Kosal and Murat Tosun
Some Equivalence Relations and Results over the Commutative Quaternions and Their Matrices 125

Habib Maagli and Zagharide Zine El Abidine
Positive bounded solutions for nonlinear polyharmonic problems in the unit ball 143

Kahraman Esen Ozen, Murat Tosun and Mahmut Akyigit
Siacci's Theorem According to Darboux Frame 155

R. Pukhtaievych and S. Plaksa
On logarithmic residue of monogenic functions in a three-dimensional commutative algebra with one-dimensional radical 167

Sajad Ranjbar
Strong convergence of a composite Halpern type iteration for a family of nonexpansive mappings in cat (0) spaces 183

S.P. Vijayalakshmi, T.V. Sudharsan, Daniel Breaz and K.G. Subramanian
Bounds on the Third Order Hankel Determinant for Certain Subclasses of Analytic Functions 199

Ma lgorzata Zdanowicz and Zbigniew Peradzynski
Mixed problem for quasilinear hyperbolic system with coefficients functionally dependent on solution 215