Indian Journal of
Pure & Applied Mathematics
Volume 50 • Number 2 • June 2019

CONTENTS

On some equalities and inequalities for $k$-frames
by Fahimeh Arabyani Neyshaburi, Ghadir Mohajeri Minaei and Ehsan Anjidani ... 297

Integral basis of pure prime degree number fields
by Anuj Jakhar and Neeraj Sangwan ... 309

Inequalities concerning rational functions with prescribed poles
by Abdullah Mir ... 315

More variants of Erdős-selfridge superelliptic curves and their rational points
by N. Saradha ... 333

Integral points on the elliptic curve $E_{pq} : y^2 = x^3 + (pq - 12)x - 2(pq - 8)$
by Teng Cheng, Qingzhong Ji and Hourong Qin ... 343

Normal completions of block partial matrices
by Chao Ma ... 353

Comment on “identities and congruences for the general partition and Ramanujan's tau functions”
by Qing Zou ... 365

Some family of Diophantine pairs with Fibonacci numbers
by Jinseo Park and June Bok Lee ... 367

Dynamics of the nonlinear rational difference equation $x_{n+1} = \frac{A x_{n-\alpha} x_{n-\beta} + B x_{n-\gamma}}{C x_{n-\alpha} x_{n-\beta} + D x_{n-\gamma}}$
by Abdualrazaq Sanbo, E. M. Elsayed and Faris Alzahrani ... 385

Twisted conjugacy and quasi-isometric rigidity of irreducible lattices in semisimple lie groups
by T. Mubeena and P. Sankaran ... 403

Symmetric biderivations on Banach algebras
by Choonkil Park ... 413

Dynamical analysis of a complex logistic-type map
by A. M. A. El-Sayed and S. M. Salman ... 427
Constructing uniform central graphs and embedding into them
   by Sandi Klavžar, Kishori P. Narayankar and S. B. Lokesh ... 451

On the genus of the $k$-annihilating-ideal hypergraph of commutative rings
   by K. Selvakumar and V. Ramanathan ... 461

Distance hereditary graphs $G$ of connectivity two or three and $diam(G) = diam(\overline{G}) = 3$ are reconstructible
   by P. Devi Priya and S. Monikandan ... 477

Classification of the pentavalent symmetric graphs of order $18p$
   by Mehdi Alaeiyan and Masoumeh Akbarizadeh ... 485

On sums of range symmetric matrices with reference to indefinite inner product
   by D. Krishnaswamy and A. Narayanasamy ... 499

The existence of weak solutions for a nonlocal Cahn-Hilliard equation with degenerate mobility
   by Zhenbang Li ... 511

Constructions of $r$-identifying codes and $(r, < l)$-identifying codes
   by R. Dhanalakshmi and C. Durairajan ... 531

Holomorphic aspects of moduli of representations of quivers
   by Pradeep Das, S. Manikandan and N. Raghavendra ... 549