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1. On the Diophantine Equation  $p^x + (p+1)^y = z^2$  where  $p$  is a Mersenne Prime
2. On the Visibility of  $a^n \pm b^n$  by Powers of  $n$
3. Some Gamma Function Inequalities Occurring in Probability Theory
4. Determination of Nodes in Numerical Integration Rules Using Difference Equation
5. Inverse Eigenvalue Problem for Generalized Arrow-Like Matrices
6. The Matrix Exponential
7. Quartic Functional Equations
8. A Note on Complex Matrices that are Unitary Congruent to Real Matrices
9. On the Number of Regions into which  $n$  Straight Lines Divide the Plane
10. An Algorithm for Constructing Magic Squares
11. Generalized 2D Principal Component Analysis for Face Image Representation and Recognition
12. A New Era for Crew Recovery at Continental Airlines
13. A Simple Direct Cosine Simplex Algorithm
14. The Diophantine Equation  $(ax^k - 1)(by^k - 1) = abz^k - 1$
15. A New Multivalued Contraction and Stability of its Fixed Point Sets
16. Solutions of the Diophantine Equation  $2^x + p^y = z^2$
17. An Auxiliary Ordinary Differential Equation and the Exp-Function Method
18. On Two New Inequalities Similar to Hardy-Hilbert's Integral Inequality
19. A Characterization of Trace Zero Nonnegative  $5 \times 5$  Matrices
20. Algebras Satisfying Congruence Relations
21. Inequalities from Some Generalizations of the Wallis's Conocuneus
22. On the Properties of Lucas Numbers with Binomial Coefficients
23. Numerical Aspects of Gram-Schmidt Orthogonalization of Vectors
24. Iterative Method to Nonlinear Equations
25. Novel Methods of Generating Self-Invertible Matrix for Hill Cipher Algorithm
26. Ramanujan's "Most Beautiful Identity"
27. Parametric Integration Techniques
28. Generalized Low Rank Approximations of Matrices
29. A Fast Algorithm for Evaluating  $n$ th Order Tri-Diagonal Determinants
30. On Total Dominating Sets in Graphs
31. The Omega Matrix
32. Lexicographic Decomposition of Preferences
33. On a Functional Equation of Hosszu Type