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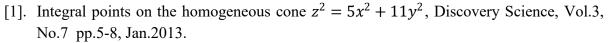
Name : Dr.V.Sangeetha

Designation : Assistant Professor

Qualification : M.Sc., M.Phil., Ph.D.

Date of Joining: 05.07.2012

Publications



- [2]. Lattice Points on the Homogeneous cubic equation with four unknowns $(x + y)(xy + w^2) = (k^2 1)z^3$, k > 1, Indian Journal of Science, Vol.2, No.4, pp.97-99, Feb. 2013.
- [3]. Integral solutions of the quadratic equation with four unknowns $x^2 = y^2 + zw + 3w^2$, IJPAMS, Vol.6, No.2, pp.241-246,2013.
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- [5]. Integral points on the quadratic equation with four unknowns $2(x^2 + y^2) + 3xy + x y + 1 = z^2 + 7w^2$, Diophantus Journal of Mathematics, Vol.2, No.1,pp 47-54, 2013.
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- [7]. On the ternary quadratic equation $5(x^2 + y^2) 9xy = 19z^2$, IJIRSET, Vol.2 No.6,pp.2008-2010. June 2013.
- [8]. Centered m-gonal number-1= a perfect square, Archimedes Journal of Mathematics, Vol.3, No.3, pp.233-236, 2013.
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- [10]. Lattice Points on the Homogeneous cubic equation with four unknowns $x^2 xy + y^2 + 3w^2 = 7z^3$, IJCER, Vol.3. No.7, pp. 24-26, July 2013.
- [11]. Pythagorean triangle and special pyramidal numbers, IOSR Journal of Mathematics, Vol.7 No.4, pp.21-22, July-Aug. 2013.
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- [13]. Observations on rhombic dodecahedral number, International Journal of Engineering Research-Online, Vol.1, No.2, pp.283-288, 2013.
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- [16]. On the integer solutions of the Pell equation $x^2 18y^2 = 4^k$, International Journal of Engineering Science Invention, Vol. 12, No. 12, pp. 01-03, 2013.



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- [18]. On the integer solutions of the Pell equation $x^2 3y^2 = (k^2 + 4k + 1)^t$, Jamal research journal-proceedings of ICOMAC, pp.256-258, Feb. 2014.
- [19]. On the integer solutions of the Pell equation $x^2 = 13y^2 3^t$, International Journal of Applied Mathematical Research, Vol. 3, No. 1, pp. 58-61, 2014.
- [20]. Observations on the ternary quadratic equation $X^2 = 24\alpha^2 + Y^2$, Bulletin of Society for Mathematical Services & Standards, Vol. 3,No. 2, pp. 88-91, 2014.
- [21]. Construction of strong and almost strong rational Diophantine quadruples, JP Journal of Algebra, Number Theory and Applications, Vol.35, No.1,pp.35-48,2014.
- [22]. On the non-homogeneous heptic equation with five unknowns $(x^2 y^2)(4x^2 + 4y^2 6xy) = 8(X^2 Y^2)z^5$, International Journal of Innovative Research and Review, Vol.2, No.4, pp.23-26, 2014.
- [23]. Integral points on the non-homogeneous cubic equation with five unknowns $x^3 y^3 = z^3 w^3 + 12t^2$ International Journal of Innovation in Science and Mathematics Vol.2, No.6, pp.576-577, 2014.
- [24]. Integer solutions of non-homogeneous biquadratic equation with four unknowns $4(x^3 + y^3) = 31(k^2 + 3s^2)zw^3$, Jamal Academic Research Journal, Special issue,pp.296-299,2015.
- [25]. On the Ternary Cubic Equation $3(x^2 + y^2) 2xy + 4(x + y) + 4 = 51z^3$, International Journal of Innovative Science and Modern Engineering (IJISME), Vol 3, No. 6, pp. 29-31, 2015
- [26]. Integer solutions of non-homogeneous biquadratic equation with four unknowns $xy + (k^2 + 1)z^2 = 2^{2n}w^4$, Proceedings of ReDeEM ,Thiagarajar College,Madurai,pp.119-124,2015.
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- [28]. Pythagorean triangle with area/perimeter as a quartic integer, IJERM, Vol. 2, No. 3, pp. 84-85, 2015.
- [29]. Integer solutions of non-homogeneous heptic equation with five unknowns $x^3-y^3-(x^2+y^2)+z^3-w^3=2+5(x-y)(z-w)^2p^4$, International Journal of Scientific and Research Publications, Vol.5, No. 1, pp.1-3, 2015
- [30]. Special Pythagorean triangles and 10 digit dhuruva numbers, Global Journal of Science Frontier Research: F,Vol.15,No.5,Version 1.0,pp.13-18,2015.
- [31]. On the integer solutions of Pell equation $x^2 = 17y^2 19^t$, JP Journal of Applied Mathematics, Vol. 15, No. 2, pp. 81-88, 2017.
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- [33]. On interesting Diophantine Pairs, CASIRJ, Vol. 11, No. 8, pp. 55-61, 2020.
- [34]. On the Gaussian Integer Solutions for an Elliptic Diophantine Equation, Advances and Applications in Mathematical Sciences, Vol. No. 20 & Issue No. 05,pp.815-822, March,

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- [36]. Lattice Points for the Quadratic Diophantine Equation $21(x^2 + y^2) 19xy = 84z^2$, International Journal of Innovative Research science, Engineering and Technology (IJIRSET) Volume 11, Issue 5, pp 5542-5549, May 2022.
- [37]. Integral Solutions of Quadratic Diophantine Equation with two unknowns $11(\theta^2 + \Omega^2) = 2(12\theta\Omega 1)$, Research and Reflections on Education ,Vol. 20 No. 3A pp.108-111,October 2022.
- [38]. Special Dio triples involving Primes, Engineering, Science, and sustainability. Proceeding of the International Sustainability Conference, (CRC Press Taylor&Francis group) pp. 173-176, August 2022.

Conference / Workshops/Seminars attended

S.No	Conference/ Workshop Name	Institution	Title	Participated/ Presented	Level	Date
1.	ICOMAC 2014	Jamal Mohammed College,Trichy	On the integer solutions of Pell Equation $x^2 - 3y^2 = (k^2 + 4k + 1)^t$	Presented	International	13&14 February 2014
2.	UGC Sponsored- NCRTMM- 2014	Government Arts College for Women, Pudukottai	Construction of the Diophantine Triples involving Polygonal numbers	Presented	National	12&13 March 2014
3.	ICOMAC 2015	Jamal Mohammed College,Trichy	Integer solutions of non-homogeneous biquadratic equation with four unknowns $4(x^3 + y^3) = 31(k^2 + 3s^2)zw^3$	Presented	International	22&23 January 2015

4.	UGC Sponsored- ReDeEM	Thiagarajar College, Madurai	Integer solutions of non-homogeneous biquadratic equation with four unknowns $xy + (k^2 + 1)z^2 = 2^{2n}w^4$	Presented	National	12&13 March 2015
5.	UGC Sponsored – National Conference on Graph Theory,Fuzzy GraphTheory and its Applications	Jamal Mohammed College,Trichy	An Interesting Diophantine Problem	Presented	National	10&11 February 2016
6.	National Level Seminar on "Modern Trends in Mathematics"	Shrimati Indira Gandhi College, Trichy	-	Attended	National	22 December 2016
7.	ICDCM - 2017	Gandhigram Rural Institute Deemed to be University, Dindigul.	An Interesting Diophantine Pairs	Presented	International	16-18 February 2017.
8.	NCATPAM'19	Dr.Umayal Ramanathan College for Women,Karaikudi	-	Attended	National	19&20 September 2019

Books Published

A chapter in the ISBN edited book "Contemporary Research Trends in Mathematics", Multi Spectrum Publications, ISBN 978-93-94428-82-9, First edition 2023.

Experience

Institution	Designation	Period	No. of
			Years
St.Joseph's Matric.	Maths Teacher	1,June 2002 –	2 yrs 6
Hr.Sec.School, Acharapakkam,		22,December	months
Kanchipuram Dt.		2004	
National College	Assistant Professor	5,July 2012 to	11 yrs
		till date	-

Membership

Life Time Member in Ramanujan Mathematical Society

Extension Activities

Coordinator for outreach programmes (CSIR-NET/SET/ IIT - JAM Coaching) jointly organized by National College and Ramanujan Mathematical Society.