1067-11-1029   **Mark Budden** and **Nicole Calkins*** (`nc4639@stu.armstrong.edu`), 25 Finch ln, Richmond Hill, GA 31324, and **William Nathan Hack**, **Joshua K Lambert** and **Kimberly Thompson**. *Enumeration of Triangles in Quartic Residue Graphs.*

Quartic residue graphs are graphs whose vertices are the elements of $\mathbb{Z}/p\mathbb{Z}$, where p is a prime congruent to 1 modulo 4, and the edges are formed when the difference between the vertices is a quartic residue. We wish to extend the results found in Maheswari and Lavaku's article on the relationship between the number of triangles in a quadratic residue graph and the number of consecutive pairs in the quadratic residues into a similar connection for quartic residues and their associated quartic residue graphs. (Received September 17, 2010)