

Triangular Squares Using MATHEMATICA

Dipendra C. Sengupta, Ph.D.
Department of Mathematics & Computer Science
Elizabeth City State University
Elizabeth City, NC 27909, U.S.A.
Email: sengupd@alpha.ecsu.edu

June 1, 1999

Abstract.

This note concerns generating perfect square triangular numbers using a short program of MATHEMATICA which uses the main theorem. All the triangular numbers are given by $t_n = \frac{n(n+1)}{2}$ for all positive integer n . We computed the first forty-nine integers that are simultaneously triangular and square.