



EQUALITY OF THREE SPECIAL M -GONAL NUMBERS

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Abstract

Explicit formulas for the ranks of Triangular numbers, Hexagonal numbers, Pentadecagonal numbers and Hexadecagonal numbers satisfying the relations $t_{3,N} = t_{6,h} = t_{15,F}$, $t_{3,N} = t_{6,h} = t_{16,E}$ are obtained.

Keywords and phrases: equality of polygonal numbers, hexadecagonal numbers, hexagonal numbers, pentadecagonal numbers, triangular numbers.