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ON REP-DIGIT POLYGONAL NUMBERS

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Abstract

This paper investigates on the properties of integers that are simultaneously represented as both m rep-digit (dR_m) and n -gonal numbers. Using hyperbolic geometry, we ascertain both lower and upper bounds on these numbers when there are a finite set these integers.

Key Words : *Rep-digit, Rep-unit, Polygonal number, Simultaneous rep-digit polygonal, Pell equation.*

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