

## MAGIC POLYGONS AND THEIR PROPERTIES

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ABSTRACT. Magic squares are arrangements of natural numbers into square arrays, where the sum of each row, each column, and both diagonals is the same. In this paper, the concept of a magic square with 3 rows and 3 columns is generalized to define magic polygons. Furthermore, this paper will examine the existence of magic polygons, along with several other properties inherent to magic polygons.

KEYWORDS: *magic squares, polygons*

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