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Some Distance Magic Graphs ☆

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Abstract

Let $G = (V, E)$ be a graph of order n . A bijective function $f : V \rightarrow \{1, 2, \dots, n\}$ is said to be a distance magic labeling of G if for every $v \in V$, $\sum_{x \in N(v)} f(x) = k$ (a constant). A graph which admits such a labeling is said to be a distance magic graph. In this paper we study distance magic labeling for the neighborhood expansion $D_p(G)$ of a graph G and present a method for embedding regular graphs into distance magic graphs.

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Keywords

Distance magic graphs; neighbourhood expansion

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