SUPERMAGIC GRAPHS HAVING A SATURATED VERTEX\textsuperscript{1}

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Abstract

A graph is called supermagic if it admits a labeling of the edges by pairwise different consecutive integers such that the sum of the labels of the edges incident with a vertex is independent of the particular vertex. In this paper we establish some conditions for graphs with a saturated vertex to be supermagic. Inter alia we show that complete multipartite graphs $K_{1,n,n}$ and $K_{1,2,2,...,2}$ are supermagic.

Keywords: supermagic graph, saturated vertex, vertex-magic total labeling.

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References

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