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A note on neighbor expanded sum distinguishing index *

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Abstract

A total k-coloring of a graph G is a coloring of vertices and edges of G using colors of the set $[k] = \{1, \ldots, k\}$. These colors can be used to distinguish the vertices of G. There are many possibilities of such a distinction. In this paper we consider the sum of colors on incident edges and adjacent vertices.

Keywords: general edge coloring, total coloring, neighbor-distinguishing index, neighbor sum distinguishing coloring.

Mathematics Subject Classification: 05C15.

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