

FURTHER RESULTS ON DIVISOR CORDIAL GRAPH

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Abstract: In 1987, Cahit [7] introduced cordial labeling as a weaker version of graceful labeling and harmonious labeling. In 2011, Varatharajan *et al.* [16] have introduced divisor cordial labeling as a variant of cordial labeling. In this paper, we investigate divisor cordial labeling for C_n -quadrilateral snake, degree splitting graph of triangular snake, quadrilateral snake, ladder graph and helm graph. Moreover, we discuss divisor cordial labeling of graphs obtained by duplication of an arbitrary edge by a new vertex in path, duplication of an arbitrary vertex by a new edge in path, duplication of an arbitrary vertex by a new vertex in path and duplication of an arbitrary edge by a new edge in path.

Keywords and Phrases: Graph Labeling, Cordial Labeling, Divisor Cordial Labeling, Graph Operation, Degree Splitting Graph, Duplication of Graph Elements, Snake Graph.

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1. Introduction and Preliminaries

We begin with simple, finite, connected and undirected graph $G = (V(G), E(G))$. For all standard terminologies and notations we follow Clark and Holton [8]. We