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DISTANCE ANTIMAGIC LABELING FOR PANCYCLIC GRAPHS

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Abstract: A distance antimagic labeling of a graph G with vertex set $V(G)$ and edge set $E(G)$ is a bijection from vertex set $V(G)$ to $\{1, 2, ..., |V(G)|\}$ such that $\sum_{p \in N(q)} f(p) = w(q)$ for all $q \in V(G)$, where $N(q)$ is the set of all vertices of $V(G)$ which are adjacent to q and $w(p) \neq w(q)$ for every pair of vertices $p, q \in V(G)$. A graph which admits a distance antimagic labeling is called a distance antimagic graph. In this paper, we addresses distance antimagic labeling of some specific pancyclic graphs.

Keywords and Phrases: Distance antimagic labeling, pancyclic graph.

2020 Mathematics Subject Classification: 05C78.

1. Introduction

Here, we consider all graphs G with vertex set $V(G)$ and edge set $E(G)$ are finite and simple. $|V(G)|$ and $|E(G)|$ denote the number of vertices and number of edges respectively. Gross and Yellen [5] is adopted for the comprehension of