Abstract

A square divisor cordial labeling of a graph G with vertex set V is a bijection f from V to \(f(1, 2, \ldots, |V|)\) such that if each edge uv is assigned the label 1 if \(|f(u)|^2 \neq |f(v)|^2\) or \(|f(v)|^2 \neq |f(u)|^2\) and 0 otherwise, then the number of edges labeled with 0 and the number of edges labeled with 1 differ by at most 1. If a graph has a square divisor cordial labeling, then it is called a square divisor cordial graph. In this paper, we investigate the square divisor cordial labeling behavior of paths, cycles, wheel graphs, star graphs, some complete bipartite graphs and complete graphs.

References

Square Divisor Cordial Graphs


Index Terms

Computer Science Applied Mathematics

Keywords

Cordial labeling square divisor cordial labeling square divisor cordial graphs