Abstract

A (p, q) graph $G$ is said to be a square sum graph if there exist a bijection $f: V(G) \rightarrow \{0, 1, 2, \ldots, p-1\}$ such that the induced function $f^*: E(G) \rightarrow \mathbb{N}$ given by $f^*(u, v) = [f^*(u)]^2 + [f^*(v)]^2$ for every $uv \in E(G)$ are all distinct. In this paper the square sum labeling of total graph of path $P_n$, cycle $C_n$ and middle graph of path $P_n$, cycle $C_n$ are discussed.

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Index Terms

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