

Some New Classes of 3-Total Product Cordial Graphs

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Abstract

In [3], Ponraj. R et al have defined the 3- Total Product Cordial of a graph $G (V, E)$ as follows, Let f be a function from $V(G)$ to $\{0, 1, \dots, k - 1\}$ where k is an integer, $2 \leq k \leq V(G)$. For each edge uv assign the label $f(u) f(v) \pmod k$. f is called a k - Total Product cordial labeling if $f(i) - f(j) \leq 1, i, j \in \{0, 1, \dots, k - 1\}$ where $f(x)$ denotes the total number of vertices and edges labeled with $x(x = 0, 1, 2, \dots, k-1)$. We prove that the 3-Total Product cordial labeling is a behaviour of F_n .
