ABSTRAK

Misalkan G adalah graf dengan himpunan titik $V(G)$ dan himpunan sisi $E(G)$. Diberikan fungsi f dari $V(G)$ ke $\{0,1,2,\ldots,k\text{-}1\}$ dengan $2 \leq k \leq |V(G)|$. Fungsi f disebut *k-total product cordial* bila harga mutlak selisih banyaknya titik dan sisi berlabel x kurang dari atau sama dengan satu untuk $x = 0,1,2,\ldots,k\text{-}1$. Jika $k = 3$ fungsi f disebut pelabelan *3-total product cordial*. Tugas akhir ini mengkaji tentang pelabelan *3-total product cordial* pada graf *crown*, graf *bistar*, dan *subdivision* graf *bistar*

Kata kunci : Pelabelan *k-total product cordial*, graf *crown*, graf *bistar*, *subdivision* graf *bistar.*

ABSTRACT

Let G be a graph with vertex set $V(G)$ and edge set $E(G)$. Defined a function f from $V(G)$ to $\{0,1,2,\ldots,k\text{-}1\}$ with $2 \leq k \leq |V(G)|$. The function f is called k-total product cordial labeling if the absolute value of the difference of the number of vertexs and edges having labels x is less or equal to 1 where $x = 0,1,2,\ldots,k\text{-}1$. For $k = 3$, f is called 3-total product cordial labeling. The present paper study 3-total product cordial labeling at crown graph, bistar graph, and subdivision of bistar.

Keywords : k-total product cordial labeling, crown graph, bistar graph, subdivision of bistar.