

Pelabelan harmonis pada graf tangga segitiga dan graf tangga segitiga variasi = Harmonious labeling of triangular ladder graph and variation of triangular ladder graph / Kurniawan Atmadja

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20415540&lokasi=lokal>

Abstrak

[ABSTRAK

Misalkan graf (G) sering ditulis sebagai (V, E) , terdiri dari himpunan tak kosong simpul dan himpunan busur. Penambahan busur pada graf Tangga (G) yang diperluas, akan mengakibatkan diperolehnya suatu graf baru. Graf Tangga (G) adalah hasil perkalian Cartesius graf lintasan. Pada tesis ini dipelajari variasi dua graf tangga yaitu : graf Tangga Segitiga dan graf Tangga Segitiga Variasi. Pelabelan harmonis sesuai dari definisi Graham dan Sloane (1980) adalah fungsi injektif $f: V \rightarrow \mathbb{Z}_m$, yang menginduksi fungsi pelabelan busur bijektif $f: E \rightarrow \mathbb{Z}_m$ dimana $f(e) = f(u) + f(v) \pmod m$. Pada tesis ini dibuktikan bahwa graf dan graf untuk merupakan graf harmonis.

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ABSTRACT

Let (G) , in short G , be a graph which consists of a non empty set of vertices and a set of edges. By adding several edges in Ladder graph (G) , we can obtain a new graph. A Ladder graph (G) is a graph product between two paths. In this tesis, we study on the construction of harmonious labeling of Triangular Ladder graph and Variation of Trianguler Ladder graph. A harmoniuous labeling, referred to Graham and Sloane (1980), is an injective function $f: V \rightarrow \mathbb{Z}_m$, which will induced bijection edge function $f: E \rightarrow \mathbb{Z}_m$ where $f(e) = f(u) + f(v) \pmod m$. In this tesis, it will be proved that graph and graph for is harmoniuous graphs, Let (G) , in short G , be a graph which consists of a non empty set of vertices and a set of edges. By adding several edges in Ladder graph (G) , we can obtain a new graph. A Ladder graph (G) is a graph product between two paths. In this tesis, we study on the construction of harmonious labeling of Triangular Ladder graph and Variation of Trianguler Ladder graph. A harmoniuous labeling, referred to Graham and Sloane (1980), is an injective function $f: V \rightarrow \mathbb{Z}_m$, which will induced bijection edge function $f: E \rightarrow \mathbb{Z}_m$ where $f(e) = f(u) + f(v) \pmod m$. In this tesis, it will be proved that graph and graph for is harmoniuous graphs]