

Polinomial karakteristik matriks antiadjacency dari graf lingkaran berarah C_n dan graf lingkaran berarah dengan penambahan satu chord C_{nt} = Antiadjacency matrix characteristic polynomial of a directed cycle graph C_n and directed cycle graph with one chord C_{nt}

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Abstrak

Misalkan $G(V(G),E(G))$ adalah suatu graf dengan $V(G)$ yang merupakan himpunan simpul tak kosong dan $E(G)$ yang merupakan himpunan busur. Jika B adalah matriks antiadjacency dari graf berarah G , maka dapat dibentuk suatu polinomial karakteristik $\det(I-B((G)))$. Sifat-sifat polinomial karakteristik matriks antiadjacency dari graf berarah asiklik sudah dibahas, akan tetapi sifat untuk graf berarah yang memuat subgraf lingkaran belum diketahui. Pada skripsi ini diberikan sifat-sifat polinomial karakteristik matriks antiadjacency dari graf berarah siklik, khususnya graf lingkaran berarah (C_n) dan graf lingkaran berarah dengan penambahan satu chord (C_{n^t}).

.....Let $G(V(G),E(G))$ be a graph with $V(G)$ which is a nonempty set of vertices and $E(G)$ which is a set of arcs. If B is an antiadjacency matrix of a directed graph G , then its characteristic polynomial $\det(I-B((G)))$. The properties of the characteristic polynomial of antiadjacency matrix of acyclic directed graph has been discussed. However, the properties of the directed graph contains a circle subgraph is unknown. In this thesis the properties of antiadjacency matrix characteristic polynomial of a cyclic directed graph is given, specifically for directed cycle graph (C_n) and directed cycle graph with the addition of one chord (C_{n^t}).