

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  $C_{nt}$

Adi Prasinda Putra, author

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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 ( $C_n^t$ ).