Polinomial karakteristik matriks antiadjacency dari graf lingkaran berarah Cn dan graf lingkaran berarah dengan penambahan satu chord Cnt = Antiadjacency matrix characteristic polynomial of a directed cycle graph Cn and directed cycle graph with one chord Cnt

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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) .