

1146-05-201

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HADWIGER NUMBERS OF SELF-COMPLEMENTARY GRAPHS.

The Hadwiger number of a graph G , denoted by $h(G)$, is the order of the largest complete minor of G . We prove that for all $n \equiv 0, 1 \pmod{4}$ and any self-complementary graph G with n vertices, $h(G) \geq \lfloor (n+1)/2 \rfloor$. We also prove that for all $n \equiv 0, 1 \pmod{4}$ and $\lfloor (n+1)/2 \rfloor \leq h \leq \lfloor 3n/5 \rfloor$, there exists a self-complementary graph G with n vertices whose Hadwiger number is h . We discuss topological properties of self-complementary graphs. (Received January 22, 2019)