Zbl 152.41201

Erdős, Pál; Hajnal, András

On chromatic graphs (In Hungarian)

Mat. Lapok 18, 1-4 (1967). [0025-519X]

Authors' summary: "A graph G is said to have property T_c if for every kand every k of its vertices $x_1,...,x_k$ the subgraph $G(x_1,...,x_k)$ spanned by the vertices $x_1, ..., x_k$ contains a set of independent vertices having ck elements. We show that for every $c < \frac{1}{2}$ there is a graph G having property T_c and chromatic number \aleph_0 . Clearly a graph having property $T_{1/2}$ has chromatic number at most 2. The question is left open if for every $m > \aleph_0$ and every $c < \frac{1}{2}$ there is a graph G having m vertices, satisfying property T_c and of chromatic number m."

Cs.Pogány

Classification:

05C15 Chromatic theory of graphs and maps