

Zbl 117.17402

Erdős, Pál

On a problem in graph theory (In English)

Math. Gaz. 47, 220-223 (1963). [0025-5572]

Let $f(k)$ be the minimum number of vertices in a complete graph which can be so oriented that, for every set S of k vertices, there is a vertex x joined to all elements of S by edges directed from x to S . The author proves that $f(k) \geq 2^{k+1} - 1$ and $\limsup 2^{-k} k^{-2} f(k) \leq \log 2$.

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Classification:

05C35 Extremal problems (graph theory)