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Erdős, Paul; Pach, János
On a quasi-Ramsey problem. (In English)
J. Graph Theory 7, 137-147 (1983). [0364-9024]

The authors define $R_t(n)$ as the smallest natural number R such that, for any graph G of order R, either G or the complement of G contains a subgraph H of order at least n and minimum degree at least $t|V(H)|$. They show that for each fixed $t > \frac{1}{2}$, the function $R_t(n)$ increases exponentially whereas it is bounded above by a linear function for each fixed $t < \frac{1}{2}$. Finally, they show that $R_{1/2}(n) < cn \log n$ and that this is close to best possible.

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Classification:
05C55 Generalized Ramsey theory
60C05 Combinatorial probability

Keywords:
complement of graph; subgraph; minimum degree