SOME RESULTS ON TURÁN AND RAMSEY NUMBERS FOR SEMI-TOPOLOGICAL GRAPHS

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Let $\mathcal{G}$ be a family of simple graphs. Let $ex(n, \mathcal{G})$ be the Turán number for the family $\mathcal{G}$, i.e., the maximum number of edges in a graph on n vertices which does not contain $G \in \mathcal{G}$ as a subgraph. We give the Turán numbers for some semi-topological graphs extending the results of Jiang [4], Horev [3], Bielak [1] and generalizing some other results presented in [2]. Moreover, we count Ramsey numbers for some semi-topological graphs versus a simple graph.

Keywords: cycle, path, Ramsey number, semi-topological graph, Turán number.

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