Graphs.
In a red-blue coloring of a graph $G$, every edge of $G$ is colored red or blue. For two graphs $F$ and $H$ and an integer $k$ with $2 \leq k \leq R(F, H)$, where $R(F, H)$ is the Ramsey number of $F$ and $H$, the $k$-Ramsey number $R_{k}(F, H)$ of $F$ and $H$ is the smallest order of a balanced complete $k$-partite graph $G$ such that every red-blue coloring of $G$ results in a red $F$ or a blue $H$. When $F$ and $H$ are bipartite, $R_{k}(F, H)$ is know to exist for each such integer $k$. When $F$ and $H$ are not bipartite that is not the case. We look at some of these results. (Received September 22, 2015)

