

Graph

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1 Colouring

2 Ramsey

3 Matching

1. Let M, N be matchings in G , with $|M| > |N|$, show that there exists M', N' such that $|M'| = |M| - 1$ and $|N'| = |N| + 1$ and $M' \cup N' = M \cup N$ and $M' \cap N' = M \cap N$

4 Connectivity