

INTRODUCTION TO MATROID THEORY
SUGGESTED EXERCISES

1. How many nowhere-zero 7-flows does the graph K_4 have?
2. Prove that $K_{3,3}$ does not admit an abstract dual.
3. For every $n > 1$ find a graph G_n with n non-isomorphic geometric duals.
4. Let M be a matroid and consider its Tutte polynomial $T_M(x, y)$. Prove that $T_M(1, 1)$ equals the number of bases of M .