Possible Project Topics

Two stars means I have a good idea about a problem that might be cracked. One star means there are possibilitites for original work. The difficulty levels vary.

1. Known results on counting acyclic orientations.
2. **Nowhere-zero flows
3. The Jordan curve theorem.
4. Determining the genus of a graph.
5. ** Various topics in graph colouring via the probabilistic method.
5. **The Chudnowsky-Seymour characterization of claw-free graphs.
6. **Algorithms for finding skew cutsets.
7. **Isomorphism testing for special classes of graphs.
8. **Tree width of graphs with a small grid minor excluded.
9. **Packing/Covering for Odd Cycles.
10. **The tree width of directed graphs.
11. *Edge Colouring(especially the Integrality Gap).
12. Maybe a *. The Cycle Double Cover Conjecture.
12. The Proof of the 4CC
13. Hamilton Cycles and the TSP in Random Graphs.