MATH 634, Spring 2014
Homework 6
due 5:00pm on Monday, February 24.

Background reading: Pearls in Graph Theory, Sections 2.1 and 2.2.

Follow the posted homework guidelines when completing this assignment.

Problems **6D**, **6E**, and **6P** should be typed (or written up) and handed in as class starts on Monday 2/24:

6D.
- snark
- spanning subgraph
- r-factor of a graph
- decomposition of a graph
- Hamiltonian cycle

6E. Is Figure 2.1.5 critical? Justify.
[*Don't believe everything you read!*]

6P. (a) Determine $\chi(W_n)$. Prove your claim.

(b) For which n is W_n critical? Prove your claim.