Math 374

Project for Wednesday

1. Put the 16 superstables for K_4 on the board (or, if you like, add 1 to each coordinate to get the 16 parking functions). Next to each one:

(i) place the way cars with the corresponding preferences end up parking;
(ii) place the corresponding acyclic orientation of K_4.

Split up the work. Everyone has to draw at least something on the board.

2. Compute the superstables of K_4 with one edge deleted. Can you find an explanation for these in terms of parking preferences (with slightly modified rules for parking, presumably)? [Does you answer depend on the choice of source vertex?] Generalize to K_n.