1. (4 points) Draw the two chair conformers of the molecule shown below and circle the most stable one.

![Molecule Diagram]

2. (1.5 pts) Assign the stereochemistry (R or S) to each stereocenter on the molecule above. (Just write R or S by each stereocenter.)

3. (4.5 pts) Draw Newman projections down the C3-C4 bond for the three staggered conformers of the molecule shown below. Identify the least stable and the most stable conformers.

![Newman Projection Diagram]