Please print out this form (two-sided, if you can) and write your answers *legibly* in the spaces provided. If you can't write legibly, type.

1. In the bottom right figure on slide 6, which vertices are free? Which are matched? Which are unreached? List the vertices in each of the blossoms. For each blossom, which vertex is its base?

2. What's the maximum possible number of blossoms in a graph on n vertices? Explain why a graph cannot have any more blossoms than this.

3. Draw a graph with at least 10 vertices that demonstrates that it's possible to achieve the bound in the previous question.