1) Using the colors 1, 2, 3, ... and the vertex ordering A, B, C, ... color the graph below using the greedy coloring.

2) Draw a tree with degree sequence 3, 2, 2, 2, 2, 2, 1, 1, 1. That is:
   - One vertex has degree 3.
   - Five vertices have degree 2.
   - Three vertices have degree 1.

There are several possible solutions.