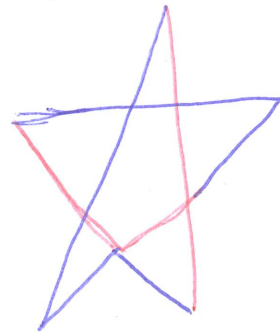
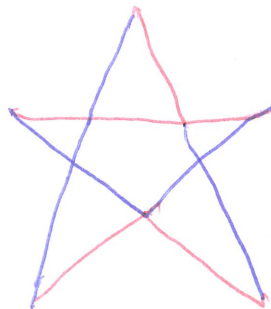
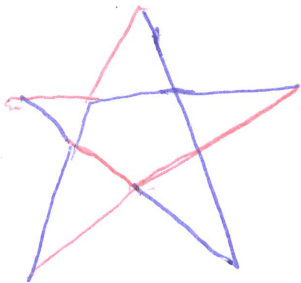
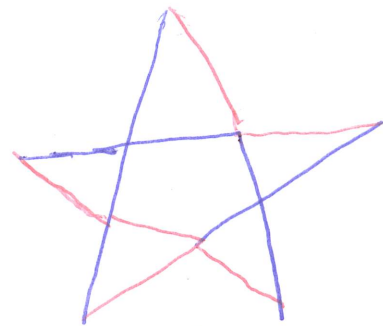
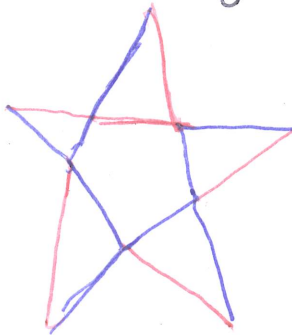
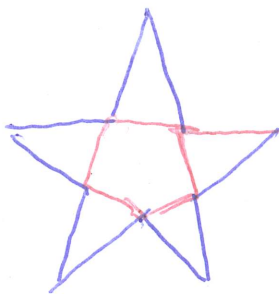


Sketches for Problem 1

1 (b) Here are a few maximal trees.

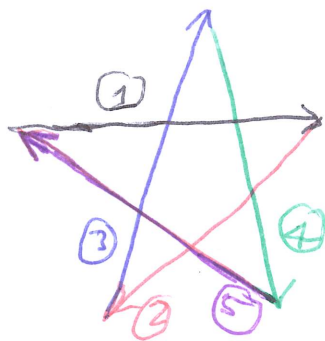
There are also many others

Blue - in tree
Red - excluded

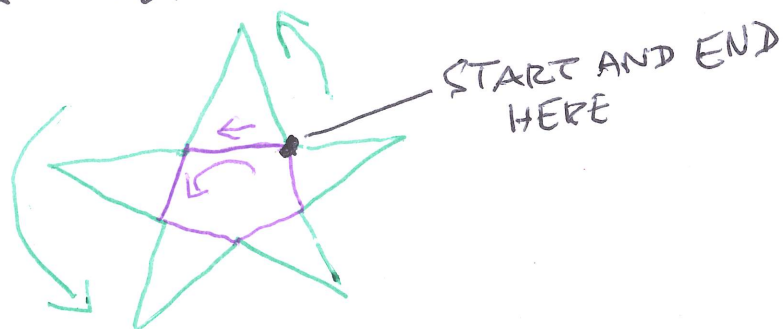


In each case six edges are removed but no vertex is removed.

1.(c) The simplest Euler path is the primary school approach to drawing a 5 pointed star:



Another simple method is to go around the outside first and then the inside:



Once again, there are also many other possibilities.