CSI 5165 Combinatorial Algorithms   Fall 2010
Computer Science   University of Ottawa

Homework Assignment #3 (50 points, half weight from original)
Due: Wed, November 24 (also acceptable utill Friday, November 26)

1. (10 points) **Finding isomorphism by hand**
   Do exercise 7.1 of the textbook.

2. (10 points) **Certificate for trees**
   Do exercise 7.2 of the texbook. Simulate the algorithm by hand computation, showing
   your tree and labels at each step.

3. (10 points) **Reverse the certificate for a tree**
   Do exercise 7.3 of the textbook. Show how the tree is built step by step.

4. (20 points) **Certificate for graphs**
   Apply Algorithm 7.8 by hand, in order to compute a certificate for the following graph.
   Show your backtracking tree. (Note that before the first branch is explored, there is a
   call to procedure REFINE).