Aufgabe 12-1 Canonical Labeling

Calculate the Canonical Labeling of the following graphs:

Aufgabe 12-2 gSpan

Given the following graph $G$:

(a) List all DFS trees for $G$ that start at node $X$.
(b) Encode them as DFS codes and order them lexicographically.
(c) Which code is used to represent the original graph? Why is the chosen DFS code unique? Which graph properties are necessary to apply this technique?
(d) List all possible right-most extensions of the DFS corresponding to the selected graph.