

## Problem Set 09: GPL Trees (Questions)

1. Use a tree to test whether the following is a tautology. If it is not, then read a countermodel off the tree.

(a)  $\neg(\text{Jac} \rightarrow \exists y(\text{Lcy} \rightarrow \text{Jyc}))$

2. Use a tree to test whether the following propositions are jointly satisfiable. If they are not, then read a countermodel off the tree.

(a)  $\exists y \exists z \text{Jyz}, (\text{Kcb} \wedge (\neg \text{Jaa} \rightarrow \text{Jab}))$