Problem Set 10: GPLI Trees (Questions)

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

    (a) (¬Kba↔ (c=c→ c=c)), (∃xc=x↔ ¬Kac)

2. Use a tree to test whether the following argument is valid. If it is not, then read a countermodel off the tree.

    (a) (Gcb→ ¬Gc), (∃z(Gz∨¬Gz)↔ Ia) ∴ ¬((a=b→ (b=a∨Ga))∨Gc)