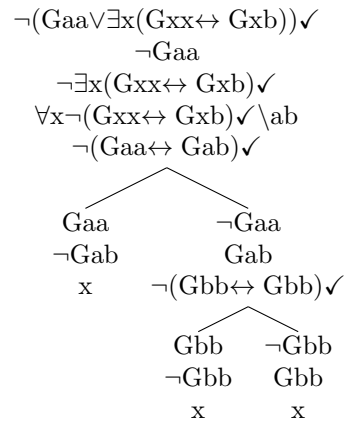


Problem Set 09: GPL Trees (Answers)

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

(a) $(Gaa \vee \exists x(Gxx \leftrightarrow Gxb))$

(b) Answer:



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) $\neg(Lab \leftrightarrow Kbc), (\forall y Lcy \wedge Kca)$

(b) Answer:

