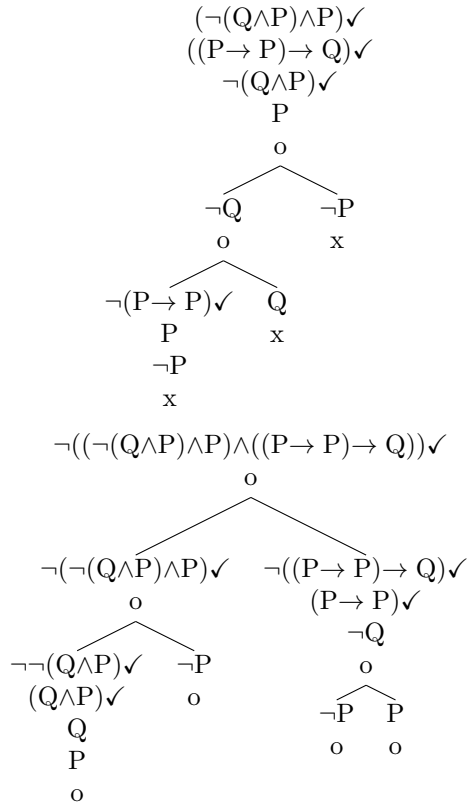


Problem Set 04: PL Trees (Answers)

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

(a) $(\neg(Q \wedge P) \wedge P), ((P \rightarrow P) \rightarrow Q)$

(b) Answer:



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

(a) $((A \wedge B) \leftrightarrow \neg B) \leftrightarrow C, ((A \leftrightarrow B) \vee C) \wedge B, ((B \rightarrow B) \wedge B) \leftrightarrow \neg B$

(b) Answer:

