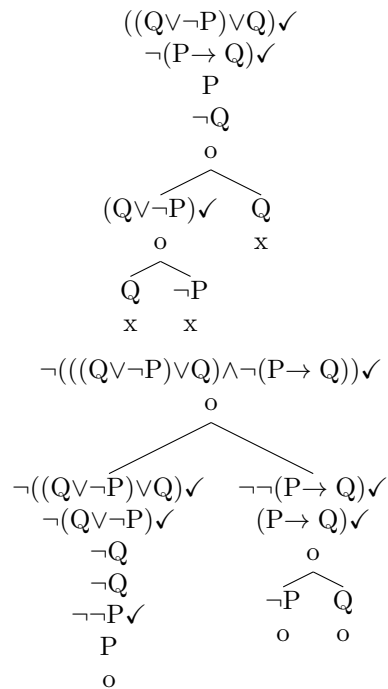


Problem Set 04: PL Trees (Answers)

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

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

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

(b) Answer:

