Problem Set 10: GPLI Trees (Answers)

- 1. Use a tree to test whether the following propositions are jointly satisfiable. If they are, then read a model off the tree.
 - (a) $\neg \forall z K z b, (\exists z z = z \leftrightarrow a = b)$
 - (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.
 - $(a) \ (Gbb \leftrightarrow (b = c \land Gcb)), \neg (\neg (\neg \neg Gbb \land c = b) \lor c = a) \therefore ((Gcc \leftrightarrow \exists yy = a) \land (c = b \leftrightarrow \exists x(x = b \lor (x = x \lor Gcx))))$
 - (b) Answer:

