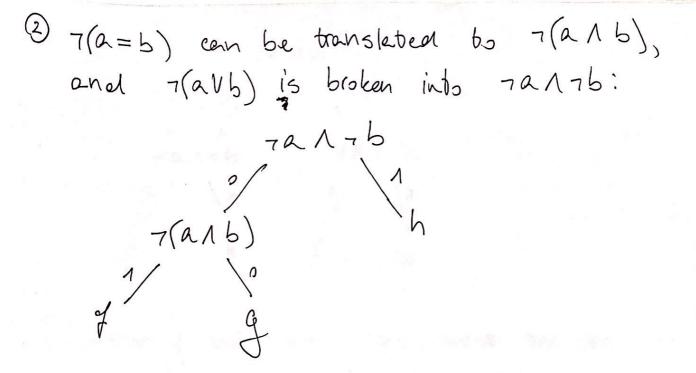
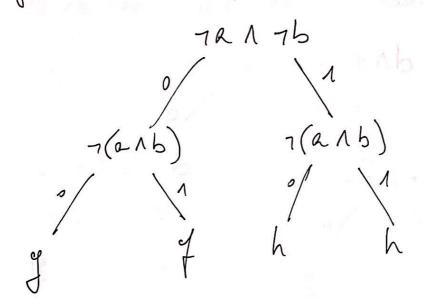
Appendix 1 Expression 1: 7(a1b)?h:7(a=b)? 4:9 Expression 2: 7 (7a/7b)? 9: (7a / 7b)? h: 4 Exp. 1 Tree: 7 (aVb) 7(a=b) Exp. 2 Tree: (1) 7(7a V7b) (= a 1b)

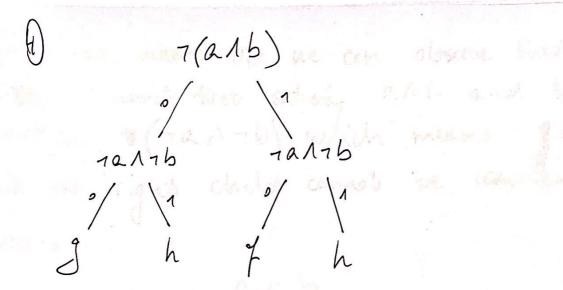
Let's first expand some of the logical brees on Exp. 1 Tree so that we can try and see if there is a way to reconstruct Exp. 1. Tree into that of Exp. 2 Tree.



3 right side at the tree can be further expanded:



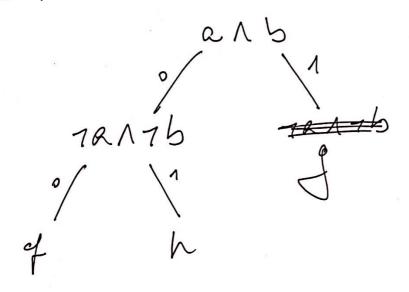
What is more, since h can only be reached when 12176 and gdof when not 72176, we can suitible the order of the nodes:



(5) Comparing our current tree nithes the one of Exp. 2, we see that they are getting more similar. Let us now negate the root node.

$$7(7(216))=7ah$$
 $7ah7b$
 $7ah7b$
 $7ah7b$
 $7ah7b$

*here we had to snow the child nades as a consequence of negative the parent wate. (6) From our current tree we can observe that the we cannot first satisfy and and then setisfy to (72176), which means to have of the right child cannot be reached. Hence:



This now is the exact tree of Exp. 2.

Hence, the expressions are equivelent.