

Logic 1, WS 2013. Homework 9, given Jan 9, due Jan 16.

1. Prove by sequent calculus:

$$(\exists_x P[x]) \Rightarrow Q \vdash \forall_x (P[x] \Rightarrow Q)$$

and

$$\forall_x (P[x] \Rightarrow Q) \vdash (\exists_x P[x]) \Rightarrow Q.$$