

Inference at *
of proof for Lemma member-exists:

$\vdash \forall T:\text{Type}, L:(T \text{ List}). (\exists x:T. (x \in L)) \iff (\neg(L = []))$
by MaAuto.

1:

1. $T : \text{Type}$
 2. $L : T \text{ List}$
 3. $\exists x:T. (x \in L)$
- $\vdash \neg(L = [])$

2:

1. $T : \text{Type}$
 2. $L : T \text{ List}$
 3. $\neg(L = [])$
- $\vdash \exists x:T. (x \in L)$
- .