Inference at $*$ 1 2 1
 of proof for Lemma member-exists:

1. T : Type
2. u : T
3. v : T List
4. $\exists x{:}T.\ (x \in [u\ /\ v])$
5. $[u\ /\ v] = []$

$\vdash$ False
  by ((((ApFunToHypEquands 'Z' $\|Z\|$ $\mathbb{Z}$ (-1))
THENM (Reduce (-1)))$\cdot$)
  CollapseTHEN (Auto'
    ))$\cdot$

    .

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http://www.nuprl.org/FDLcontent/p0_963683_/p39_339341_{member-exists}1_2_1.html