

Inference at *
of proof for Lemma not_over_exists:

$\vdash \forall T:\text{Type}, Q:(T \rightarrow \mathbb{P}). (\neg(\exists x:T. Q(x))) \iff (\forall x:T. \neg Q(x))$
by ((GenRepD)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
)) (first_tok :t) inil_term)))

1:

1. $T : \text{Type}$
 2. $Q : T \rightarrow \mathbb{P}$
 3. $\neg(\exists x:T. Q(x))$
 4. $x : T$
- $\vdash \neg Q(x)$

2:

1. $T : \text{Type}$
 2. $Q : T \rightarrow \mathbb{P}$
 3. $\forall x:T. \neg Q(x)$
- $\vdash \neg(\exists x:T. Q(x))$

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