

Inference at *
of proof for Lemma uni_sat_imp_in_uni_set:

$\vdash \forall T:\text{Type}, a:T, Q:(T \rightarrow \mathbb{P}). (a = !x:T. Q(x)) \Rightarrow (a \in \{!x:T \mid Q(x)\})$
by (((Unfolds “uni_sat unique_set“ 0)
CollapseTHEN (RepD)).)
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. $a : T$
 3. $Q : T \rightarrow \mathbb{P}$
 4. $Q(a)$
 5. $\forall a':T. Q(a') \Rightarrow (a' = a)$
- $\vdash a \in \{x:T \mid Q(x) \ \&\ (\forall y:T. Q(y) \Rightarrow (y = x))\}$
- .