

Inference at * 1
of proof for Lemma decidable_functionality:

1. $P : \mathbb{P}$
 2. $Q : \mathbb{P}$
 3. $P \iff Q$
 4. $\text{Dec}(P)$
- $\vdash \text{Dec}(Q)$
by ((Using ['A',P] (BackThruLemma 'iff_preserves_decidability'))
CollapseTHEN (
 (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)))·