Inference at $*$ 1 1 1 1
 of proof for Lemma bij_imp_exists_inv:

1. A : Type
2. B : Type
3. f : $A \rightarrow B$
4. $\forall a_1, a_2{:}A.\ (f(a_1) = f(a_2)) \Rightarrow (a_1 = a_2)$
5. g : $B \rightarrow A$
6. $\forall b{:}B.\ f(g(b)) = b$

$\vdash \exists g{:}B \rightarrow A.$ InvFuns(A;B;f;g)
 by ((With g (D 0))
 CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

$\vdash$ InvFuns(A;B;f;g)
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