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

1. A : Type
2. B : Type
3. f : $A \to B$
4. Bij(A;B;f)

$\vdash \exists g{:}B \to A.$ InvFuns(A;B;f;g)
by ((Repeat (Unfolds "biject inject surject" 4))
CollapseTHEN (D 4))·

1:

4. $\forall a_1, a_2{:}A.\ (f(a_1) = f(a_2)) \Rightarrow (a_1 = a_2)$
5. $\forall b{:}B.\ \exists a{:}A.\ (f(a) = b)$

$\vdash \exists g{:}B \to A.$ InvFuns(A;B;f;g)
.