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

1. A : Type
2. B : Type
3. f : $A \rightarrow B$
4. g : $B \rightarrow A$
5. InvFuns(A;B;f;g)

$\vdash$ Bij(A;B;f)
by D 5

1:

5. $(g \circ f) = \mathrm{Id}\{A\}$
6. $(f \circ g) = \mathrm{Id}\{B\}$

$\vdash$ Bij(A;B;f)

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