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

1. A : Type
2. B : Type
3. f : $A \rightarrow B$

$\vdash (\lambda x.(\lambda x.x)(f(x))) = f$
by Reduce 0

1:

$\vdash (\lambda x.f(x)) = f$
.

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_85043_{comp_id_l}1_1.html