Inference at $*$ 2 1
of proof for Lemma p-fun-exp-compose:

1. T : Type
2. n : $\mathbb{Z}$
3. $0 < n$
4. $\forall h, f$:($T \rightarrow$(T + Top)). f^n - 1 o h = primrec(n - 1;h;λi,g. f o g)
5. h : $T \rightarrow$(T + Top)
6. f : $T \rightarrow$(T + Top)

$\vdash$ primrec(1+(n - 1);p-id();λi,g. f o g) o h = f o primrec(n - 1;h;λi,g. f o g)
by Subst primrec(1+(n - 1);p-id();λi,g. f o g)
=
f o primrec(n - 1;p-id();λi,g. f o g) 0 THEN Auto

1: .....equality..... NILNIL

$\vdash$ primrec(1+(n - 1);p-id();λi,g. f o g)
=
f o primrec(n - 1;p-id();λi,g. f o g)

2:

$\vdash$ f o primrec(n - 1;p-id();λi,g. f o g) o h
=
f o primrec(n - 1;h;λi,g. f o g)

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