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

1. T : Type
2. $n : \mathbb{Z}$
3. $0 < n$
4. $\forall h, f{:}(T{\to}(T + \text{Top}))$. $f\hat{\ }n$ - 1 o h = primrec(n - 1;h;$\lambda i,g$. f o g)
$\vdash \forall h, f{:}(T{\to}(T + \text{Top}))$.
  primrec(n;p-id();$\lambda i,g$. f o g) o h = primrec(n;h;$\lambda i,g$. f o g)
  by (Auto THEN Subst' $n = 1+(n$ - 1) 0 THENA Auto')
  CollapseTHEN (
    RWO "primrec_add" 0 THEN Auto THEN Reduce 0)$\cdot$

  1:

    5. $h : T{\to}(T + \text{Top})$
    6. $f : T{\to}(T + \text{Top})$
    $\vdash$ primrec(1+(n - 1);p-id();$\lambda i,g$. f o g) o h
      =
      f o primrec(n - 1;h;$\lambda i,g$. f o g)
  .