Inference at $*$ 1 1 4 2 1
 of proof for Lemma gen_hyp_tp:

1. A : Type
2. e : A
3. H : A→Type
4. x : A
5. $e = x$
6. z : $H(e)$
7. $A \in$ Type
8. $e \in A$
9. $\forall x{:}A.\ (e = x) \in$ Type

$\vdash z \neq 0$

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  by (\p.let A = get_term_arg ‘A‘ p
   inlet x = get_term_arg ‘x‘ p

     in let e = get_term_arg ‘e‘ p
    in
     At (get_term_arg ‘UH‘ p)
     (Subst

           (mk_equal_term
          (mk_set_term (dv x) A (mk_equal_term A e x))

             e
          x)
         (get_int_arg ‘i‘ p + 2)) p)
```

1:

6. z : $H(x)$
7. $A \in$ Type
8. $e \in A$
9. $\forall x{:}A.\ (e = x) \in$ Type

$\vdash z \neq 0$

2: . . . . .wf. . . . . NILNIL

$\vdash \forall z_1{:}\{x{:}A|\ e = x\}\ .\ H(z_1) \in$ Type

3: . . . . .equality. . . . . NILNIL

$\vdash e = x$

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http://www.nuprl.org/FDLcontent/p0_359040_/p121_98517_{gen_hyp_tp}1_1_4_2_1.html