

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

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1. A : Type
2. e : A
3. H : A → Type
4. z : H(e)
5. A ∈ Type
6. e ∈ A
7. ∀x:A. (e = x) ∈ Type
⊢ z ≠ 0
  by (\p.
    let i = get_int_arg 'i' p
    inlet x = get_term_arg 'x' p

    in let e = get_term_arg 'e' p
    in let A = get_term_arg 'A' p
    in
      AssertAtHyp

      i
      (mk_exists_term (dv x) A (mk_equal_term A e x))
      p)

1: .....assertion..... NILNIL

⊢ ∃x:A. (e = x)
2:

4. ∃x:A. (e = x)
5. z : H(e)
6. A ∈ Type
7. e ∈ A
8. ∀x:A. (e = x) ∈ Type
⊢ z ≠ 0
.

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