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

1. $i_1 : \mathbb{N}$
2. $i_2 : \mathbb{N}$
3. $j_1 : \mathbb{N}$
4. $j_2 : \mathbb{N}$
5. $i_1 \leq j_1$
6. $i_2 \leq j_2$

$\vdash (i_1 * i_2) \leq (j_1 * j_2)$

 by ((Using ['n',i_1] (FwdThruLemma 'mul_preserves_le' [6]))
 CollapseTHENA (
  (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

  1:

   7. $(i_1 * i_2) \leq (i_1 * j_2)$

   $\vdash (i_1 * i_2) \leq (j_1 * j_2)$

  .