

Inference at \* 1  
of proof for Lemma linorder\_functionality\_wrt\_iff:

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1. T : Type
2. R : T → T → ℙ
3. R' : T → T → ℙ
4. ∀ x, y : T. R(x, y) ⇔ R'(x, y)
⊢ (Order(T; x, y. R(x, y)) & Connex(T; x, y. R(x, y)))
  ⇔ (Order(T; x, y. R'(x, y)) & Connex(T; x, y. R'(x, y)))
  by InteriorProof ((RWH (HypC 4) 0)
CollapseTHEN ((Auto_aux (first_nat 1:n
                        ) ((first_nat 1:n), (first_nat 3:n)) (first_tok :t) inil_term)))

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