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

1. T : Type
2. A : $\mathbb{P}$
3. B : $T \to \mathbb{P}$
4. x : T
5. A
6. $B(x)$

$\vdash \exists x{:}T.\ B(x)$
 by ((With x (D 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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