

Inference at * 1
of proof for Lemma exists_over_and_r:

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1. T : Type
2. A :  $\mathbb{P}$ 
3. B : T  $\rightarrow$   $\mathbb{P}$ 
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)))).
```