

Inference at \*  
of proof for Lemma p-mu-decider:

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⊢∀A:Type, P:(A→ℕ→ℕ).  
  (∀x:A. Dec(∃n:ℕ. (↑(P(x,n)))))) ⇒ (∀x:A. ∃y:ℕ + Top. p-mu(P(x);y))  
  by (Auto·)  
  CollapseTHEN ((BLemma 'p-mu-exists')  
  CollapseTHEN (Auto·)·
```