

Inference at *
of proof for Lemma p-fun-exp-add1-sq:

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⊢∀A:Type, f:(A→(A + Top)), x:A, n:ℕ.  
  (↑can-apply(f;x) ⇒ ((fn+1(x)) ~ (fn(do-apply(f;x))))  
  by (Unfolds “can-apply do-apply“ ( 0)·)  
  CollapseTHEN ((UnivCD)  
  CollapseTHENA (Auto  
  ·)·).
```

1:

1. $A : \text{Type}$
 2. $f : A \rightarrow (A + \text{Top})$
 3. $x : A$
 4. $n : \mathbb{N}$
 5. $\uparrow \text{isl}(f(x))$
- ⊢ $(f^{n+1}(x)) \sim (f^n(\text{outl}(f(x))))$
- .