```
length_zero  THM

⊢  ∀T:Type, l:T List. ||l|| = 0 ⟺ l = nil
| by UnivCD THENA Auto THEN D (-1) THEN Reduce 0 THEN Auto'
|
|
1. T : Type
2. u : T
3. v : T List
4. [u / v] = nil
⊢  ||v||+1 = 0  by Obvious
END
```