```
all-nsub-add1  THM

⊢  ∀n:ℕ, P:(ℕ(n+1)→Prop). (∀x:ℕ(n+1). P(x)) ⟺ P(0) & (∀x:ℕn. P(x+1))
| by Auto THEN EasyHyp THEN (CaseNat 0 ‘x’)
|
1. n : ℕ
2. P : ℕ(n+1)→Prop
3. P(0)
4. ∀x:ℕn. P(x+1)
5. x : ℕ(n+1)
6. ¬x = 0
⊢  P(x)
| by (InstHyp [x-1] -3) THEN (NthHypSq -1) THEN Analyze
|    THEN
|    (Try Trivial)
|
1. n : ℕ
2. P : ℕ(n+1)→Prop
3. P(0)
4. ∀x:ℕn. P(x+1)
5. x : ℕ(n+1)
6. ¬x = 0
7. P(x-1+1)
⊢  x ∼ (x-1+1)  by Analyze -3
END
```