```
compose_iter_sum_comp  THM

⊢  ∀A:Type, f:(A→A), i,j,k:ℕ.  k = i+j ⇒ f{^O i} o f{^O j} = f{^O k}
| by Def of <fun> o <fun> THEN FunExtensionality
|
1. A : Type
2. f : A→A
3. i : ℕ
4. j : ℕ
5. k : ℕ
6. k = i+j
7. x : A
⊢  f{^O i}(f{^O j}(x)) = f{^O k}(x)
  by BackThru:
     Thm*  ∀x:A, f:(A→A), i,j,k:ℕ.
           k = i+j ⇒ f{^O i}(f{^O j}(x)) = f{^O k}(x)
     {compose_iter_sum}
END
```