```
sfa_doc_funeq_example1  THM

⊢  (λx.x) = (λx.if x<0→ 0 ; x fi) ∈ ℕ→ℕ
| by FunExtensionality THEN Reduce Concl
|
1. x : ℕ
⊢  x = if x<0→ 0 ; x fi ∈ ℕ  by Decide: x<0
|
2. ¬x<0
⊢  x = if x<0→ 0 ; x fi ∈ ℕ
  by SwapEquands Concl
     THEN
     Refine
     RULE H  ⊢ if a<b→ s ; t fi = u ∈ T

            BY lessReduceFalse ;

            H ⊢ t = u ∈ T
            H ⊢ (a<b)→Void
     {lessReduceFalse}
     []
END
```