```
fappend_wf  THM

⊢  ∀n,m:ℕ, f:(ℕn→ℕm), x:ℕm. f[n:=x] ∈ ℕ(n+1)→ℕm
  by Auto THEN Unfold ‘fappend‘ 0 THEN MemCD THENA Auto

     THEN SplitOnConclITE THEN Auto’
END
```