```
connex_functionality_wrt_implies  THM

⊢  ∀R,R':(T→T→Prop).
|  (∀x,y:T. R(x,y) ⇒ R'(x,y))
|  ⇒
|  Connex(T;x,y.R(x,y)) ⇒ Connex(T;x,y.R'(x,y))
| by Unfolds [‘guard‘;‘connex‘] 0 THEN RepD
|
1. T : Type
2. R : T→T→Prop
3. R' : T→T→Prop
4. ∀x,y:T. R(x,y) ⇒ R'(x,y)
5. ∀x,y:T. R(x,y) ∨ R(y,x)
6. x : T
7. y : T
⊢  R'(x,y) ∨ R'(y,x)
| by ReplaceWith (∀x,y:T. R(x,y) ⇒ R'(x,y)) 4 THENA Unfold ‘guard‘ 0
|
4. ∀x,y:T. R(x,y) ⇒ R'(x,y)
5. ∀x,y:T. R(x,y) ∨ R(y,x)
6. x : T
7. y : T
⊢  R'(x,y) ∨ R'(y,x)  by RWH (HypC 4) 5
|
5. ∀x,y:T. R'(x,y) ∨ R'(y,x)
6. x : T
7. y : T
⊢  R'(x,y) ∨ R'(y,x)  by BackThru 5
END
```