```
not_not_rw  THM

⊢  ∀P:(T→Prop). (∀x:T. Dec(P(x))) ⇒ (∀x:T. ¬¬P(x) ⟺ P(x))
| by UnivCD
|
1. T : Type
2. P : T→Prop
3. ∀x:T. Dec(P(x))
4. x : T
⊢  ¬¬P(x) ⟺ P(x)  by Witness3 x
|
3. x : T
4. Dec(P(x))
⊢  ¬¬P(x) ⟺ P(x)  by Analyze -1
|
|\
| 4. P(x)
| ⊢  ¬¬P(x) ⟺ P(x)  by Auto
| |
| 5. P(x)
| ⊢  ¬¬P(x)  by Analyze 0
| |
| 6. ¬P(x)
| ⊢  False  by Analyze 6 THEN Trivial
|
.\
. 4. ¬P(x)
. ⊢  ¬¬P(x) ⟺ P(x)  by Auto
END
```