```
formula_not_left_sound  THM

⊢  ∀concl,M,N:Formula List, f2:Formula.
|  |= <M @ N,f2.concl>  ⇒ |= <M @ (⌈◇⌉f2.N),concl>   by UnivCD
|
1. concl : Formula List
2. M : Formula List
3. N : Formula List
4. f2 : Formula
5. |= <M @ N,f2.concl>
⊢  |= <M @ (⌈◇⌉f2.N),concl>
| by UnfoldTopAb -1 THEN UnfoldTopAb 0 THEN Analyze 0
|
5. ∀a:Full(<M @ N,f2.concl>). a |= <M @ N,f2.concl>
6. a : Full(<M @ (⌈◇⌉f2.N),concl>)
⊢  a |= <M @ (⌈◇⌉f2.N),concl>  by With a (Analyze -2)
|
|\
| .....wf .....
| 5. a : Full(<M @ (⌈◇⌉f2.N),concl>)
| ⊢  a ∈ Full(<M @ N,f2.concl>)
| | by Unfold ‘full_sequent_assignment‘ 0
| |
| ⊢  a
| |  ∈ {a:Assignment| a |= <M @ N,f2.concl> ∨ a |≠ <M @ N,f2.concl> }
| | by AbSetMemEqTypeCD
| |
| |\
| | ⊢  a ∈ Assignment  by Auto
| |
| .\
| . .....set predicate .....
| . ⊢  a |= <M @ N,f2.concl> ∨ a |≠ <M @ N,f2.concl>
| . | by Analyze -1 THEN Analyze -1
| . |
| . |\
| . | 5. a : Assignment
| . | 6. a |= <M @ (⌈◇⌉f2.N),concl>
| . | ⊢   by DNth 1 0
| . | |
| . | ⊢  a |= <M @ N,f2.concl>
| . |   by BackThru
| . |      Thm* ∀concl,M,N:Formula List, f2:Formula, a:Assignment.
| . |           a |= <M @ N,f2.concl> ⟺ a |= <M @ (⌈◇⌉f2.N),concl>
| . |      {formula_not_left_sat}
| . |
| . .\
| . . 5. a : Assignment
| . . 6. a |≠ <M @ (⌈◇⌉f2.N),concl>
| . . ⊢   by DNth 2 0
| . . |
| . . ⊢  a |≠ <M @ N,f2.concl>
| . .   by BackThru
| . .      Thm* ∀concl,M,N:Formula List, f2:Formula, a:Assignment.
| . .           a |≠ <M @ N,f2.concl> ⟺ a |≠ <M @ (⌈◇⌉f2.N),concl>
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| . .      {formula_not_left_falsifiable}
|
.\
. 5. a : Full(<M @ (⌜◇⌝f2.N),concl>)
. 6. a |= <M @ N,f2.concl>
. ⊢
.   by BackThru
.      Thm* ∀concl,M,N:Formula List, f2:Formula, a:Assignment.
.           a |= <M @ N,f2.concl> ⟺ a |= <M @ (⌜◇⌝f2.N),concl>
.      {formula_not_left_sat}
END
```