```
assoced_nelim  THM

⊢  ∀a,b:ℕ. (a ∼ b) ⟺ a = b
| by RepD
|    THEN
|    (RWH
|     (LemmaC
|      Thm* ∀a,b:ℤ. (a ∼ b) ⟺ a = b ∨ a = -b    {assoced_elim})
|     0)
|
1. a : ℕ
2. b : ℕ
⊢  a = b ∨ a = -b ⟺ a = b  by GenRepD
|
|\
| 3. a = b ∨ a = -b
| ⊢  a = b  by Analyze 3
|
.\
. 3. a = b
. ⊢  a = b ∨ a = -b  by Sel 1 (Analyze 0)
END
```