```
not_over_and  THM

⊢  Dec(A) ⇒ (¬(A & B) ⟺ ¬A ∨ ¬B)  by GenRepD
|
|\
| 1. A : Prop
| 2. B : Prop
| 3. Dec(A)
| 4. ¬(A & B)
| ⊢  ¬A ∨ ¬B  by Decide A
| |
| |\
| | 5. A
| | ⊢  ¬A ∨ ¬B  by (Sel 2 (Analyze 0)) THEN (Analyze 0)
| | |
| | 6. B
| | ⊢  False  by Analyze 4
| |
| .\
| . 5. ¬A
| . ⊢  ¬A ∨ ¬B  by Sel 1 (Analyze 0)
|
.\
. 1. A : Prop
. 2. B : Prop
. 3. Dec(A)
. 4. ¬A ∨ ¬B
. ⊢  ¬(A & B)
.   by BackThru Thm* ¬A ∨ ¬B ⇒ ¬(A & B)    {not_over_and_b}
END
```