

Inference at \* 1 1  
of proof for Lemma not\_over\_and:

```

1.  $A : \mathbb{P}$ 
2.  $B : \mathbb{P}$ 
3.  $\text{Dec}(A)$ 
4.  $\neg(A \ \& \ B)$ 
5.  $A$ 
 $\vdash (\neg A) \vee (\neg B)$ 
  by (((Sel 2 (D 0))
CollapseTHENM (D 0)).)
CollapseTHENM ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term))).

1:

  6.  $B$ 
   $\vdash \text{False}$ 
.

```