

Inference at * 1
of proof for Lemma not_over_and:

```

1. A :  $\mathbb{P}$ 
2. B :  $\mathbb{P}$ 
3. Dec(A)
4.  $\neg(A \ \& \ B)$ 
 $\vdash (\neg A) \vee (\neg B)$ 
  by ((Decide A)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat
1000:n)) (first_tok :t) inil_term))).

```

1:

```

5. A
 $\vdash (\neg A) \vee (\neg B)$ 

```

2:

```

5.  $\neg A$ 
 $\vdash (\neg A) \vee (\neg B)$ 

```

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