

Inference at * 1 1 1 2 2
of proof for Lemma decidable_implies_better:

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1. P :  $\mathbb{P}$ 
2. Q :  $\cap x:P.\mathbb{P}$ 
3. P
4.  $\neg Q$ 
5. Q  $\in \mathbb{P}$ 
 $\vdash (P \Rightarrow Q) \vee (\neg(P \Rightarrow Q))$ 
  by OrRight THEN Auto
THEN D 0 THEN Auto
```

1:

```
6. P  $\Rightarrow$  Q
 $\vdash$  False
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