

Inference at * 1 1 1 2

of proof for Lemma `decidable_implies_better`:

1. $P : \mathbb{P}$
 2. $Q : \bigcap x:P.\mathbb{P}$
 3. P
 4. $\text{Dec}(Q)$
 5. $Q \in \mathbb{P}$
- $\vdash (P \Rightarrow Q) \vee (\neg(P \Rightarrow Q))$
by D (-2)

1:

4. Q
 5. $Q \in \mathbb{P}$
- $\vdash (P \Rightarrow Q) \vee (\neg(P \Rightarrow Q))$

2:

4. $\neg Q$
 5. $Q \in \mathbb{P}$
- $\vdash (P \Rightarrow Q) \vee (\neg(P \Rightarrow Q))$
- .