Inference at $*$ 1 2
 of proof for Lemma decidable_or:

1. $P : \mathbb{P}$
2. $Q : \mathbb{P}$
3. P
4. $\neg Q$

$\vdash (P \vee Q) \vee (\neg(P \vee Q))$

 by ((((DNth 1 0)
 CollapseTHENM (DNth 1 0))·)
 CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_103432_{decidable__or}1_2.html