Inference at $*$ 1 4
of proof for Lemma decidable_and:

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

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

by InteriorProof ((((DNth 2 0)
CollapseTHENM (D 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_103248_{decidable__and}1_4.html