Inference at $*$ 1 4 0
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 PERMUTE{1:n, 2:n, 2:n}

1:

5. $P \ \& \ Q$

$\vdash$ False

2: .....wf..... NILNIL

$\vdash (P \ \& \ Q) \in \mathbb{P}$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_103248_{decidable__and}1_4_0.html