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

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

$\vdash (P \ \& \ Q) \vee (\neg(P \ \& \ Q))$
 by ((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_103248_{decidable__and}1_1.html