Inference at $*$
of proof for Lemma minus_functionality_wrt_le:

$\vdash \forall i, j{:}\mathbb{Z}.\ (i \geq j\ ) \Rightarrow ((\text{-}i) \leq (\text{-}j))$
by (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)

1:

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
3. $i \geq j$

$\vdash (\text{-}i) \leq (\text{-}j)$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_76363_{minus_functionality_wrt_le}.html