Inference at $*$
of proof for Lemma minus_mono_wrt_eq:

$\vdash \forall i, j{:}\mathbb{Z}.\ (i = j) \iff ((\text{-}i) = (\text{-}j))$
by (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok SupInf:t
) inil_term)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_76189_{minus_mono_wrt_eq}.html