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

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

$\vdash$ (-i) $\leq$ (-j)

by InvertRel 3

1:

3. $j \leq i$

$\vdash$ (-i) $\leq$ (-j)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_76363_{minus_functionality_wrt_le}1.html