Inference at $*$ 1 2 2 1
of proof for Lemma mul_cancel_in_eq:

. . . . .assertion. . . . . NILNIL

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $n : \mathbb{Z}^{-\circ}$
4. $\forall m{:}\mathbb{N}^{+}.\ ((m * a) = (m * b)) \Rightarrow (a = b)$
5. $(n * a) = (n * b)$
6. $\neg(n > 0)$

$\vdash$ ((-n) $*$ (-a)) = ((-n) $*$ (-b))
by (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_75290_{mul_cancel_in_eq}1_2_2_1.html