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

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. $\neg(n > 0)$
7. $((\text{-}n) * (\text{-}a)) = ((\text{-}n) * (\text{-}b))$

$\vdash a = b$
 by ((InstHyp [-n] 4)
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n
 ),(first_nat 3:n)) (first_tok :t) inil_term)))·

 1: .....set predicate..... NILNIL

 $\vdash 0 < (\text{-}n)$
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