Inference at $*$ 1 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. $(n * a) = (n * b)$

$\vdash a = b$

by ((Decide $n > 0$)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n
),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

6. $n > 0$

$\vdash a = b$

2:

6. $\neg(n > 0)$

$\vdash a = b$

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