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

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $n : \mathbb{Z}$
4. $a+n = b+n$

$\vdash a = b$

 by ((Assert ((a+n) - n) = ((b+n) - n))
 CollapseTHENM ((Auto_aux (first_nat 1:n
) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

 1: . . . . .assertion. . . . . NILNIL

 $\vdash ((a+n) - n) = ((b+n) - n)$

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