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

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

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

$\vdash((a+n)$ - $n) = ((b+n)$ - $n)$
 by ((EqCD)
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n
 )) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_76987_{add_cancel_in_eq}1_1.html