Inference at $*$ 2
 of proof for Lemma add_mono_wrt_le:

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

$\vdash a \leq b$

```
  by ((FwdThruLemma `add_cancel_in_le` [4])
  CollapseTHEN ((Auto_aux (first_nat 1:n
    ) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)))·

    .
```