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

1. $i_1 : \mathbb{Z}$
2. $i_2 : \mathbb{Z}$
3. $j_1 : \mathbb{Z}$
4. $j_2 : \mathbb{Z}$
5. $i_1 \leq j_1$
6. $i_2 \geq j_2$

$\vdash (i_1+(\text{-}i_2)) \leq (j_1+(\text{-}j_2))$

```
  by ((Backchain "add_functionality_wrt_le minus_functionality_wrt_le")
  CollapseTHEN (
    (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

    .
```