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

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
3. $i \neq j$

$\vdash (i =_0 j) = \mathrm{ff}$

```
  by ((((Unfold `eq_int` 0)
  CollapseTHEN (CaseReduce `false` [1]))·)
  CollapseTHEN (
    (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

    .
```