

Inference at \* 1 1 1  
of proof for Lemma int\_entire\_a:

```
1. a : ℤ
2. b : ℤ
3. a ≠ 0
4. b ≠ 0
5. (a * b) = 0
6. (a = 0) ∨ (b = 0)
⊢ a * b ≠ 0
  by ((D 6)
    CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)
      )) (first_tok :t) inil_term)))
```

.