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

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $a \neq 0$
4. $b \neq 0$

$\vdash a * b \neq 0$

 by ((Decide $(a * b) = 0$)
 CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 3:n)) (first_tok :t) inil_term)))·

 1:

 5. $(a * b) = 0$
 $\vdash a * b \neq 0$

 2:

 5. $\neg((a * b) = 0)$
 $\vdash a * b \neq 0$

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