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

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $a \neq 0$
4. $b \neq 0$
5. $(a * b) = 0$
6. $(a = 0) \vee (b = 0)$

$\vdash a * b \neq 0$

by ((D 6)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n
)) (first_tok :t) inil_term)))·

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_74587_{int_entire_a}1_1_1.html