

Inference at \* 1  
of proof for Lemma zero\_ann.a:

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

$\vdash (a * b) = 0$   
by ((HypSubst 3 0)  
CollapseTHEN ((Auto\_aux (first\_nat 1:n) ((first\_nat 2:n  
,(first\_nat 3:n)) (first\_tok :t) inil\_term))))).