

Inference at *
of proof for Lemma pos_mul_arg_bounds:

$\vdash \forall a, b : \mathbb{Z}. ((a * b) > 0) \iff (((a > 0) \ \& \ (b > 0)) \vee ((a < 0) \ \& \ (b < 0)))$
by ((GenRepD)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
)) (first_tok :t) inil_term))).

1:

1. $a : \mathbb{Z}$
 2. $b : \mathbb{Z}$
 3. $(a * b) > 0$
- $\vdash ((a > 0) \ \& \ (b > 0)) \vee ((a < 0) \ \& \ (b < 0))$

2:

1. $a : \mathbb{Z}$
 2. $b : \mathbb{Z}$
 3. $((a > 0) \ \& \ (b > 0)) \vee ((a < 0) \ \& \ (b < 0))$
- $\vdash (a * b) > 0$

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