

Inference at * 1 1
of proof for Lemma neg_mul_arg_bounds:

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1. a : ℤ
2. b : ℤ
3. ((-(a * b)) > (-0)) ⇔ (((-a) > (-0)) & (b > 0)) ∨ (((-a) < (-0)) & (b < 0))
⊢ ((a * b) < 0) ⇔ (((a < 0) & (b > 0)) ∨ ((a > 0) & (b < 0)))
  by InteriorProof ((RWH (RevLemmaC 'minus_mono_wrt_lt' 3)
    CollapseTHEN (
      (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok
        :t) inil_term))))

```

1:

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3. (0 > (a * b)) ⇔ (((0 > a) & (b > 0)) ∨ ((a > 0) & (b < 0)))
⊢ ((a * b) < 0) ⇔ (((a < 0) & (b > 0)) ∨ ((a > 0) & (b < 0)))
.

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