neg_mul_arg_bounds[12,41]

$\forall a, b{:}\mathbb{Z}.\ ((a * b) < 0) \iff (((a < 0)\ \&\ (b > 0)) \vee ((a > 0)\ \&\ (b < 0)))$

ProofTree

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http://www.nuprl.org/FDLcontent/p0_942988_/p15_5567_{neg_mul_arg_bounds}.html