

linorder_lt_neg^{12,41}

$\forall T:\text{Type}, R:(T \rightarrow T \rightarrow \mathbb{P}).$
 $(\forall x, y:T. \text{Dec}(R(x,y)))$
 $\Rightarrow \text{Linorder}(T;x,y.R(x,y))$
 $\Rightarrow (\forall a, b:T. (\neg \text{strict_part}(x,y.R(x,y);a;b)) \iff R(b,a))$

ProofTree