

rel_exp_iff2^{11,40}

$\forall n:\mathbb{N}, T:\text{Type}, R:(T \rightarrow T \rightarrow \mathbb{P}), x, y:T.$

$(x \text{ rel_exp}(T;R;n) y)$

$\iff ((\exists z:T. ((0 < n) \wedge ((x R z) \& (z \text{ rel_exp}(T;R;n - 1) y)))) \vee (n = 0 \in \mathbb{Z} \& x = y))$