

rel_exp^{11,40}

$\text{rel_exp}(T; R; n)$
 \equiv_{def} if $(n =_0 0)$
 then $\lambda x, y. x = y$
 else $\lambda x, y. \exists z: T. ((x R z) \wedge (z \text{rel_exp}(T; R; (n - 1)) y))$
 fi

clarification:

$\text{rel_exp}(T; R; n)$
 \equiv_{def} if $(n =_0 0)$
 then $\lambda x, y. x = y \in T$
 else $\lambda x, y. \exists z: T. ((x R z) \wedge (z \text{rel_exp}(T; R; (n - 1)) y))$
 fi
(recursive)