

t18_rewrite3

(TMJc2nwBZQmhFUfsdSrp6xMtFKZLvmJ4hKV)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k8_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $l1_rewrite3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $u1_rewrite3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_rewrite3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_struct_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. (l1_rewrite3 \\ & X4 X0) \Rightarrow ((r1_rewrite3 X0 X4 X1 X2 X3) \Rightarrow ((r1_struct_0 X4 X1) \wedge ((X2 \in \\ & X0) \wedge ((r1_struct_0 X4 X3) \wedge ((X1 \in k9_xtuple_0 (k9_xtuple_0 (u1_rewrite3 \\ & X0 X4))) \wedge ((X2 \in k10_xtuple_0 (k9_xtuple_0 (u1_rewrite3 X0 X4))) \wedge \\ & (X3 \in k10_xtuple_0 (u1_rewrite3 X0 X4)))))))))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (\neg v1_xboole_0 X2) \Rightarrow (\forall X3. \\ & (m1_subset_1 X3 (k1_zfmisc_1 (k8_afinsq_1 X2))) \Rightarrow (\forall X4. \\ & (l1_rewrite3 X4 X3) \Rightarrow (\neg (\neg k2_flang_1 X2 \in k10_xtuple_0 (k9_xtuple_0 \\ & (u1_rewrite3 X3 X4))) \wedge (r1_rewrite3 X3 X4 X0 (k2_flang_1 X2) X1)))))) \end{aligned}$$