

t36_rewrite3

(TMLqBozxVst2tbqu1aTBrrd7LFUcqnlBj6c)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_rewrite3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_rewrite3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_rewrite3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. \forall X3. \forall X4. (\neg v1_xboole_0 \\
 & X4) \Rightarrow (\forall X5. (m1_subset_1 X5 (k1_zfmisc_1 (k8_afinsq_1 X4))) \Rightarrow \\
 & (\forall X6. ((\neg v2_struct_0 X6) \wedge (l1_rewrite3 X6 X5)) \Rightarrow (\neg (k4_tarski \\
 & (k4_tarski X0 X1) (k4_tarski X2 X3) \in k1_rewrite3 X4 X5 X6) \wedge (\forall X7. \\
 & (m1_subset_1 X7 (k8_afinsq_1 X4)) \Rightarrow (\forall X8. (m1_subset_1 X8 \\
 & (k8_afinsq_1 X4)) \Rightarrow (\neg (X7 = X3) \wedge ((r1_rewrite3 X5 X6 X0 X8 X2) \wedge (X1 = \\
 & k1_flang_1 X4 X8 X7))))))))))
 \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. (\neg v1_xboole_0 X2) \Rightarrow (\forall X3. \\
 & (m1_subset_1 X3 (k8_afinsq_1 X2)) \Rightarrow (\forall X4. (m1_subset_1 X4 \\
 & (k8_afinsq_1 X2)) \Rightarrow (\forall X5. (m1_subset_1 X5 (k1_zfmisc_1 (\\
 & k8_afinsq_1 X2))) \Rightarrow (\forall X6. ((\neg v2_struct_0 X6) \wedge (l1_rewrite3 \\
 & X6 X5)) \Rightarrow (\neg (k4_tarski (k4_tarski X0 X3) (k4_tarski X1 X4) \in k1_rewrite3 \\
 & X2 X5 X6) \wedge (\forall X7. (m1_subset_1 X7 (k8_afinsq_1 X2)) \Rightarrow (\neg (r1_rewrite3 \\
 & X5 X6 X0 X7 X1) \wedge (X3 = k1_flang_1 X2 X7 X4))))))))))
 \end{aligned}$$