

t46_rewrite3 (TMZopAYJTX- EYXJXVxY9hpjnoeZfgmttcaWN)

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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 $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_rewrite3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_rewrite3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k1_rewrite3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. \forall X3. (\neg v1_xboole_0 X3) \Rightarrow \\
 & (\forall X4. (m1_subset_1 X4 (k1_zfmisc_1 (k8_afinsq_1 X3))) \Rightarrow \\
 & (\forall X5. ((\neg v2_struct_0 X5) \wedge (l1_rewrite3 X5 X4)) \Rightarrow ((v2_rewrite3 \\
 & X5 X3 X4) \wedge ((k4_tarski X0 X1 \in k1_rewrite3 X3 X4 X5) \wedge (k4_tarski X0 \\
 & X2 \in k1_rewrite3 X3 X4 X5))) \Rightarrow (X1 = X2))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. (v1_funct_1 X0) \Leftrightarrow (\forall X1. \forall X2. \forall X3. \\
 & ((k4_tarski X1 X2 \in X0) \wedge (k4_tarski X1 X3 \in X0)) \Rightarrow (X2 = X3))
 \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned}
 & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\
 & (k8_afinsq_1 X0))) \Rightarrow (\forall X2. ((\neg v2_struct_0 X2) \wedge (l1_rewrite3 \\
 & X2 X1)) \Rightarrow ((v2_rewrite3 X2 X0 X1) \Rightarrow (v1_funct_1 (k1_rewrite3 X0 X1 \\
 & X2))))))
 \end{aligned}$$