

t61_sheffer2

(TMYPC5VCN4eveVfzGXfjsSbEKN3kfjmZ1fp)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_sheffer2 : \iota \Rightarrow o$ be given. Let $l1_sheffer1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k5_sheffer1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_sheffer2 X0) \wedge (l1_sheffer1 \\
& \quad X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\
& \quad (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 \\
& \quad (u1_struct_0 X0)) \Rightarrow (k5_sheffer1 X0 X1 (k5_sheffer1 X0 (k5_sheffer1 \\
& \quad X0 (k5_sheffer1 X0 X2 (k5_sheffer1 X0 X3 X1)) (k5_sheffer1 X0 X2 (\\
& \quad k5_sheffer1 X0 X3 X1))) (k5_sheffer1 X0 X3 X3)) = k5_sheffer1 X0 X1 \\
& \quad (k5_sheffer1 X0 X2 (k5_sheffer1 X0 X3 X1))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_sheffer2 X0) \wedge (l1_sheffer1 \\
& \quad X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\
& \quad (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 \\
& \quad (u1_struct_0 X0)) \Rightarrow (k5_sheffer1 X0 (k5_sheffer1 X0 (k5_sheffer1 \\
& \quad X0 X1 (k5_sheffer1 X0 X2 X3)) (k5_sheffer1 X0 X1 (k5_sheffer1 X0 X2 \\
& \quad X3))) (k5_sheffer1 X0 X2 X2)) = k5_sheffer1 X0 X1 (k5_sheffer1 X0 X2 \\
& \quad X2))))
\end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_sheffer2 X0) \wedge (l1_sheffer1 \\
& \quad X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\
& \quad (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 \\
& \quad (u1_struct_0 X0)) \Rightarrow (k5_sheffer1 X0 X1 (k5_sheffer1 X0 X2 (k5_sheffer1 \\
& \quad X0 X3 X3)) = k5_sheffer1 X0 X1 (k5_sheffer1 X0 X2 (k5_sheffer1 X0 X3 \\
& \quad X1))))))
\end{aligned}$$