

t47_normform (TMN- fvD4oHKzmbVHgXKsXzHh9AamVxWct17j)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_finsub_1 : \iota \Rightarrow \iota$ be given. Let $k7_normform : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_normform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_normform : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_normform : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k5_finsub_1 (k7_normform \\ & X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k5_finsub_1 (k7_normform \\ & X0))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k5_finsub_1 (k7_normform \\ & X0))) \Rightarrow ((r1_tarski X1 X2) \Rightarrow (r1_tarski (k10_normform X0 X1 X3) (k10_normform \\ & X0 X2 X3)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k5_finsub_1 (k7_normform X0))) \Rightarrow (r1_tarski (k9_normform X0 X1) X1) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m2_subset_1 X1 (k2_zfmisc_1 (k5_finsub_1 \\ & X0) (k5_finsub_1 X0)) (k7_normform X0)) \Rightarrow (\forall X2. (m2_subset_1 \\ & X2 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 X0)) (k7_normform \\ & X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 (k5_finsub_1 (k7_normform X0))) \Rightarrow \\ & ((X1 \in k9_normform X0 X3) \Rightarrow ((X1 \in X3) \wedge (((X2 \in X3) \wedge (r1_normform (k5_finsub_1 \\ & X0) (k5_finsub_1 X0) X2 X1)) \Rightarrow (X2 = X1)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k5_finsub_1 X0)) \Rightarrow (\forall X2. (r1_tarski X2 X1) \Rightarrow (m1_subset_1 X2 (k5_finsub_1 X0))) \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.(m2_subset_1 X1 (k2_zfmisc_1 (k5_finsub_1 \\
& X0) (k5_finsub_1 X0)) (k7_normform X0))\Rightarrow(\forall X2.(m1_subset_1 \\
& X2 (k5_finsub_1 (k7_normform X0)))\Rightarrow(\forall X3.(m1_subset_1 \\
& X3 (k5_finsub_1 (k7_normform X0)))\Rightarrow(\neg(X1 \in k10_normform X0 X2 X3)\wedge \\
& (\forall X4.(m2_subset_1 X4 (k2_zfmisc_1 (k5_finsub_1 X0) (k5_finsub_1 \\
& X0)) (k7_normform X0))\Rightarrow(\neg(r1_normform (k5_finsub_1 X0) (k5_finsub_1 \\
& X0) X4 X1)\wedge(X4 \in k10_normform X0 (k9_normform X0 X2) X3))))))
\end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.(m1_subset_1 X1 (k5_finsub_1 (k7_normform \\
& X0)))\Rightarrow(\forall X2.(m1_subset_1 X2 (k5_finsub_1 (k7_normform \\
& X0)))\Rightarrow((\forall X3.(m2_subset_1 X3 (k2_zfmisc_1 (k5_finsub_1 \\
& X0) (k5_finsub_1 X0)) (k7_normform X0))\Rightarrow((X3 \in X1)\Rightarrow(X3 \in X2))\Rightarrow \\
& (r1_tarski X1 X2)))
\end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.\forall X2.((m1_subset_1 X1 (k5_finsub_1 \\
& (k7_normform X0)))\wedge(m1_subset_1 X2 (k5_finsub_1 (k7_normform \\
& X0))))\Rightarrow(m1_subset_1 (k10_normform X0 X1 X2) (k5_finsub_1 (k7_normform \\
& X0)))
\end{aligned} \tag{7}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.(r1_tarski X0 X1)\Leftrightarrow(\forall X2.(X2 \in X0)\Rightarrow \\
& (X2 \in X1))
\end{aligned} \tag{8}$$

Theorem 1

$$\begin{aligned}
& \forall X0.\forall X1.(m1_subset_1 X1 (k5_finsub_1 (k7_normform \\
& X0)))\Rightarrow(\forall X2.(m1_subset_1 X2 (k5_finsub_1 (k7_normform \\
& X0)))\Rightarrow(r1_tarski (k9_normform X0 (k10_normform X0 X1 X2)) (k10_normform \\
& X0 (k9_normform X0 X1) X2)))
\end{aligned}$$