

t25_inensp_1

(TMJY5RHa4yBvn824ZZwr9YetUuUuBNZgU2w)

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Let $v15_inensp_1 : \iota \Rightarrow o$ be given. Let $l2_inensp_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_inensp_1 : \iota \Rightarrow \iota$ be given. Let $v3_inensp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u4_inensp_1 : \iota \Rightarrow \iota$ be given. Let $r5_inensp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v10_inensp_1 : \iota \Rightarrow o$ be given. Let $v9_inensp_1 : \iota \Rightarrow o$ be given. Let $v5_inensp_1 : \iota \Rightarrow o$ be given. Let $v6_inensp_1 : \iota \Rightarrow o$ be given. Let $v7_inensp_1 : \iota \Rightarrow o$ be given. Let $v8_inensp_1 : \iota \Rightarrow o$ be given. Let $v11_inensp_1 : \iota \Rightarrow o$ be given. Let $v12_inensp_1 : \iota \Rightarrow o$ be given. Let $v13_inensp_1 : \iota \Rightarrow o$ be given. Let $v14_inensp_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l2_inensp_1 X0) \Rightarrow ((v10_inensp_1 X0) \Leftrightarrow (\forall X1.(m1_subset_1 \\ X1 (u1_inensp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_inensp_1 X0)) \Rightarrow \\ (\forall X3.(m1_subset_1 X3 (u1_inensp_1 X0)) \Rightarrow (\forall X4.(m1_subset_1 \\ X4 (u4_inensp_1 X0)) \Rightarrow (\forall X5.(m1_subset_1 X5 (u4_inensp_1 X0)) \Rightarrow \\ (((r5_inensp_1 X0 (k8_domain_1 (u1_inensp_1 X0) X1 X2 X3) X4) \wedge (r5_inensp_1 \\ X0 (k8_domain_1 (u1_inensp_1 X0) X1 X2 X3) X5)) \Rightarrow ((v3_inensp_1 (k8_domain_1 \\ (u1_inensp_1 X0) X1 X2 X3) X0) \vee (X4 = X5)))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(l2_inensp_1 X0) \Rightarrow ((v9_inensp_1 X0) \Leftrightarrow (\forall X1.(m1_subset_1 \\ X1 (u1_inensp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_inensp_1 X0)) \Rightarrow \\ (\forall X3.(m1_subset_1 X3 (u1_inensp_1 X0)) \Rightarrow (\exists X4.(m1_subset_1 \\ X4 (u4_inensp_1 X0)) \wedge (r5_inensp_1 X0 (k8_domain_1 (u1_inensp_1 X0) \\ X1 X2 X3) X4)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(l2_inensp_1 X0) \Rightarrow ((v15_inensp_1 X0) \Rightarrow ((v5_inensp_1 X0) \wedge \\ ((v6_inensp_1 X0) \wedge ((v7_inensp_1 X0) \wedge ((v8_inensp_1 X0) \wedge ((v9_inensp_1 \\ X0) \wedge ((v10_inensp_1 X0) \wedge ((v11_inensp_1 X0) \wedge ((v12_inensp_1 X0) \wedge \\ ((v13_inensp_1 X0) \wedge (v14_inensp_1 X0)))))))))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v15_incsp_1 X0) \wedge (l2_incsp_1 X0)) \Rightarrow (\forall X1.(\\ & \quad m1_subset_1 X1 (u1_incsp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (\\ & \quad u1_incsp_1 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_incsp_1 X0)) \Rightarrow \\ & (\neg(\neg v3_incsp_1 (k8_domain_1 (u1_incsp_1 X0) X1 X2 X3) X0) \wedge (\forall X4. \\ & \quad (m1_subset_1 X4 (u4_incsp_1 X0)) \Rightarrow (\neg \forall X5.(m1_subset_1 X5 \\ & \quad (u4_incsp_1 X0)) \Rightarrow ((r5_incsp_1 X0 (k8_domain_1 (u1_incsp_1 X0) \\ & \quad X1 X2 X3) X5) \Leftrightarrow (X4 = X5)))))))))) \end{aligned}$$