

t47_inensp_1
(TMFso6vAa8PNFTvrqRAAt4i4anivLESZBmgF)

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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 $v4_inensp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $r2_inensp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_subset_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v15_inensp_1 X0) \wedge (l2_inensp_1 X0)) \Rightarrow (\forall X1.(\\ & m1_subset_1 X1 (u1_inensp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (\\ & u1_inensp_1 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_inensp_1 X0)) \Rightarrow \\ & (\neg(\neg v3_inensp_1 (k8_domain_1 (u1_inensp_1 X0) X1 X2 X3) X0) \wedge (\forall X4. \\ & (m1_subset_1 X4 (u1_inensp_1 X0)) \Rightarrow (v4_inensp_1 (k9_domain_1 (u1_inensp_1 \\ & X0) X1 X2 X3 X4) X0)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v15_inensp_1 X0) \wedge (l2_inensp_1 X0)) \Rightarrow (\forall X1.(\\ & m1_subset_1 X1 (u1_inensp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (\\ & u1_inensp_1 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u4_inensp_1 X0)) \Rightarrow \\ & (\neg(X1 \neq X2) \wedge (\forall X4.(m1_subset_1 X4 (u1_inensp_1 X0)) \Rightarrow (\neg(r2_inensp_1 \\ & X0 X4 X3) \wedge (\neg v3_inensp_1 (k8_domain_1 (u1_inensp_1 X0) X1 X2 X4) X0)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.m1_subset_1 (k10_subset_1 X0) X0 \tag{3}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v15_inensp_1 X0) \wedge (l2_inensp_1 X0)) \Rightarrow (\forall X1.(\\ & m1_subset_1 X1 (u1_inensp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (\\ & u1_inensp_1 X0)) \Rightarrow (\neg(X1 \neq X2) \wedge (\forall X3.(m1_subset_1 X3 (u1_inensp_1 \\ & X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_inensp_1 X0)) \Rightarrow (v4_inensp_1 \\ & (k9_domain_1 (u1_inensp_1 X0) X1 X2 X3 X4) X0)))))) \end{aligned}$$