

t55_inensp_1
(TMazsHnK8LgPT6oKCgy5bg5Kfv7b9hiSz1t)

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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 $u2_inensp_1 : \iota \Rightarrow \iota$ be given. Let $u4_inensp_1 : \iota \Rightarrow \iota$ be given. Let $r3_inensp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_inensp_1 : \iota \Rightarrow \iota$ be given. Let $r1_inensp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v15_inensp_1 X0) \wedge (l2_inensp_1 X0)) \Rightarrow (\forall X1.(\\ m1_subset_1 X1 (u1_inensp_1 X0)) \Rightarrow (\exists X2.(m1_subset_1 X2 (\\ u2_inensp_1 X0)) \wedge (\exists X3.(m1_subset_1 X3 (u2_inensp_1 X0)) \wedge \\ (\exists X4.(m1_subset_1 X4 (u2_inensp_1 X0)) \wedge ((r1_inensp_1 X0 \\ X1 X2) \wedge ((r1_inensp_1 X0 X1 X3) \wedge ((r1_inensp_1 X0 X1 X4) \wedge (\forall X5. \\ (m1_subset_1 X5 (u4_inensp_1 X0)) \Rightarrow (\neg(r3_inensp_1 X0 X2 X5) \wedge ((r3_inensp_1 \\ X0 X3 X5) \wedge (r3_inensp_1 X0 X4 X5)))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v15_inensp_1 X0) \wedge (l2_inensp_1 X0)) \Rightarrow (\forall X1.(\\ m1_subset_1 X1 (u1_inensp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (\\ u2_inensp_1 X0)) \Rightarrow (\exists X3.(m1_subset_1 X3 (u1_inensp_1 X0)) \wedge \\ ((X1 \neq X3) \wedge (r1_inensp_1 X0 X3 X2)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((v15_inensp_1 X0) \wedge (l2_inensp_1 X0)) \Rightarrow (\forall X1.(\\ m1_subset_1 X1 (u2_inensp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (\\ u2_inensp_1 X0)) \Rightarrow (\neg(\exists X3.(m1_subset_1 X3 (u1_inensp_1 X0)) \wedge \\ ((r1_inensp_1 X0 X3 X1) \wedge (r1_inensp_1 X0 X3 X2))) \wedge (\forall X3.(m1_subset_1 \\ X3 (u4_inensp_1 X0)) \Rightarrow (\neg(r3_inensp_1 X0 X1 X3) \wedge (r3_inensp_1 X0 X2 X3)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.((v15_inensp_1 X0) \wedge (l2_inensp_1 X0)) \Rightarrow (\forall X1.(\\ m1_subset_1 X1 (u2_inensp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (\\ u2_inensp_1 X0)) \Rightarrow (\neg(\forall X3.(m1_subset_1 X3 (u4_inensp_1 X0)) \Rightarrow \\ (\neg(r3_inensp_1 X0 X1 X3) \wedge (r3_inensp_1 X0 X2 X3))) \wedge (X1 = X2)))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.\exists X1.m1_subset_1 X1 X0 \quad (5)$$

Theorem 1

$$\begin{aligned} \forall X0.((v15_incsp_1 X0)\wedge(l2_incsp_1 X0))\Rightarrow(\forall X1.(\\ m1_subset_1 X1 (u2_incsp_1 X0))\Rightarrow(\exists X2.(m1_subset_1 X2 (\\ u4_incsp_1 X0))\wedge(\exists X3.(m1_subset_1 X3 (u4_incsp_1 X0))\wedge \\ ((X2\neq X3)\wedge((r3_incsp_1 X0 X1 X2)\wedge(r3_incsp_1 X0 X1 X3)))))) \end{aligned}$$