

t45_abcmiz_0

(TMQ4wr37W6fA2bsJHCG75YVJ7pqjWDq24Zz)

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Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $v1_lattice3 : \iota \Rightarrow o$ be given. Let $v1_abcmiz_0 : \iota \Rightarrow o$ be given. Let $v4_abcmiz_0 : \iota \Rightarrow o$ be given. Let $v9_abcmiz_0 : \iota \Rightarrow o$ be given. Let $l2_abcmiz_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_abcmiz_0 : \iota \Rightarrow \iota$ be given. Let $r3_abcmiz_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_abcmiz_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_abcmiz_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_abcmiz_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r3_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $r1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_abcmiz_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 \\ & X0) \wedge ((v1_lattice3 X0) \wedge ((v1_abcmiz_0 X0) \wedge ((\neg v4_abcmiz_0 X0) \wedge \\ & ((v9_abcmiz_0 X0) \wedge (l2_abcmiz_0 X0)))))))) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m2_finseq_1 X2 (u1_abcmiz_0 \\ & X0)) \Rightarrow ((r3_abcmiz_0 X0 X1 X2) \Rightarrow (r1_tarski (k2_relset_1 (u1_abcmiz_0 \\ & X0) X2) (k2_abcmiz_0 X0 (k8_abcmiz_0 X0 X1 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 \\ & X0) \wedge ((v1_lattice3 X0) \wedge ((v1_abcmiz_0 X0) \wedge ((\neg v4_abcmiz_0 X0) \wedge \\ & ((v9_abcmiz_0 X0) \wedge (l2_abcmiz_0 X0)))))))) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m2_finseq_1 X2 (u1_abcmiz_0 \\ & X0)) \Rightarrow ((r3_abcmiz_0 X0 X1 X2) \Rightarrow (r3_orders_2 X0 (k8_abcmiz_0 X0 X1 \\ & X2) X1)))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0)\wedge((v3_orders_2 X0)\wedge(l1_orders_2 X0)))\wedge((m1_subset_1 X1 (u1_struct_0 X0))\wedge(m1_subset_1 X2 (u1_struct_0 X0))))\Rightarrow((r3_orders_2 X0 X1 X2)\Leftrightarrow(r1_orders_2 X0 X1 X2)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0)\Leftrightarrow(m1_finseq_1 X1 X0) \quad (4)$$

Assume the following.

$$\forall X0.(l2_abcmiz_0 X0)\Rightarrow((l1_orders_2 X0)\wedge(l1_abcmiz_0 X0)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0)\wedge((v3_orders_2 X0)\wedge((v4_orders_2 X0)\wedge((\neg v4_abcmiz_0 X0)\wedge(l2_abcmiz_0 X0))))\wedge((m1_subset_1 X1 (u1_struct_0 X0))\wedge(m1_finseq_1 X2 (u1_abcmiz_0 X0))))\Rightarrow(m1_subset_1 (k8_abcmiz_0 X0 X1 X2) (u1_struct_0 X0)) \quad (6)$$

Assume the following.

$$\forall X0.(l2_abcmiz_0 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 (u1_struct_0 X0))\Rightarrow(\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_abcmiz_0 X0))\Rightarrow((r2_abcmiz_0 X0 X1 X2)\Leftrightarrow(\exists X3.(m1_subset_1 X3 (u1_struct_0 X0))\wedge((r1_tarski X2 (k2_abcmiz_0 X0 X3))\wedge(r1_orders_2 X0 X3 X1))))))) \quad (7)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0)\Rightarrow((v1_lattice3 X0)\Rightarrow(\neg v2_struct_0 X0)) \quad (8)$$

Theorem 1

$$\forall X0.(((v3_orders_2 X0)\wedge((v4_orders_2 X0)\wedge((v5_orders_2 X0)\wedge((v1_lattice3 X0)\wedge((v1_abcmiz_0 X0)\wedge((\neg v4_abcmiz_0 X0)\wedge((v9_abcmiz_0 X0)\wedge(l2_abcmiz_0 X0))))))))\Rightarrow(\forall X1.(m1_subset_1 X1 (u1_struct_0 X0))\Rightarrow(\forall X2.(m2_finseq_1 X2 (u1_abcmiz_0 X0))\Rightarrow((r3_abcmiz_0 X0 X1 X2)\Rightarrow(\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (u1_abcmiz_0 X0))\Rightarrow((X3 = k2_relset_1 (u1_abcmiz_0 X0) X2)\Rightarrow(r2_abcmiz_0 X0 X1 X3)))))))$$