

t6_oposet_1 (TMHPwCY-
DHM17q9BPDnfvz98S4vMCEJNZ5Amy)

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Let $v2_necklace : \iota \Rightarrow o$ be given. Let $k2_oposet_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $g2_qmax_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_necklace : \iota \Rightarrow o$ be given. Let $v3_qmax_1 : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $k1_partit_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l2_qmax_1 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $l1_robbins1 : \iota \Rightarrow o$ be given. Let $k8_funct_5 : \iota$ be given. Let $np_1 : \iota$ be given. Let $r5_relat_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k4_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_robbins1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\neg(X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.((m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X0))) \wedge ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 X0 X0) \wedge \\ & (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))) \Rightarrow (\forall X3. \\ & \forall X4.\forall X5.(g2_qmax_1 X0 X1 X2 = g2_qmax_1 X3 X4 X5) \Rightarrow (\\ & (X0 = X3) \wedge ((X1 = X4) \wedge (X2 = X5)))) \end{aligned} \quad (2)$$

Assume the following.

$$(v3_necklace k2_oposet_1) \wedge (v3_qmax_1 k2_oposet_1) \quad (3)$$

Assume the following.

$$(\neg v2_struct_0 k2_oposet_1) \wedge (v3_qmax_1 k2_oposet_1) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.v1_xboole_0 (k1_partit_2 X0 X1) \quad (5)$$

Assume the following.

$$\forall X0.(l2_qmax_1 X0) \Rightarrow ((l1_orders_2 X0) \wedge (l1_robbins1 X0)) \quad (6)$$

Assume the following.

$$(v1_funct_1 \ k8_funct_5) \wedge ((v1_funct_2 \ k8_funct_5 \ np_1 \ np_1) \wedge (m1_subset_1 \ k8_funct_5 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ np_1 \ np_1)))) \quad (7)$$

Assume the following.

$$(v3_qmax_1 \ k2_oposet_1) \wedge (l2_qmax_1 \ k2_oposet_1) \quad (8)$$

Assume the following.

$$\forall X0. \forall X1. m1_subset_1 \ (k1_partit_2 \ X0 \ X1) \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ X0 \ X1)) \quad (9)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 \ X0) \wedge (l1_orders_2 \ X0)) \Rightarrow ((v2_necklace \ X0) \Leftrightarrow (r5_relat_2 \ (u1_orders_2 \ X0) \ (u1_struct_0 \ X0))) \quad (10)$$

Assume the following.

$$\forall X0. (v1_relat_1 \ X0) \Rightarrow (\forall X1. (r5_relat_2 \ X0 \ X1) \Leftrightarrow (\forall X2. \forall X3. \neg(X2 \in X1) \wedge (X3 \in X1) \wedge ((k4_tarski \ X2 \ X3 \in X0) \wedge (k4_tarski \ X3 \ X2 \in X0)))) \quad (11)$$

Assume the following.

$$k2_oposet_1 = g2_qmax_1 \ np_1 \ (k1_partit_2 \ np_1 \ np_1) \ k8_funct_5 \quad (12)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (v1_relat_1 \ X0) \quad (13)$$

Assume the following.

$$\forall X0. (l2_qmax_1 \ X0) \Rightarrow ((v3_qmax_1 \ X0) \Rightarrow (X0 = g2_qmax_1 \ (u1_struct_0 \ X0) \ (u1_orders_2 \ X0) \ (u1_robbins1 \ X0))) \quad (14)$$

Theorem 1 $v2_necklace \ k2_oposet_1$.