

t7_oposet_1 (TMJk- tHdXWt9YDFueH4u72zKbk5SDMEio1TG)

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Let $v4_orders_2 : \iota \Rightarrow o$ 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 $k1_partit_2 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v1_relat_1 : \iota \Rightarrow o$ be given. Let $r8_relat_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ 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.

$$\forall X0. \forall X1. v1_xboole_0 (k1_partit_2 X0 X1) \quad (4)$$

Assume the following.

$$\forall X0. (l2_qmax_1 X0) \Rightarrow ((l1_orders_2 X0) \wedge (l1_robbins1 X0)) \quad (5)$$

Assume the following.

$$\begin{aligned} & (v1_funct_1 k8_funct_5) \wedge ((v1_funct_2 k8_funct_5 np_1 np_1) \wedge \\ & (m1_subset_1 k8_funct_5 (k1_zfmisc_1 (k2_zfmisc_1 np_1 np_1)))) \end{aligned} \quad (6)$$

Assume the following.

$$(v3_qmax_1 k2_oposet_1) \wedge (l2_qmax_1 k2_oposet_1) \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. m1_subset_1 (k1_partit_2 X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. (r8_relat_2 X0 X1) \Leftrightarrow (\forall X2. \\ \forall X3. \forall X4. ((X2 \in X1) \wedge ((X3 \in X1) \wedge ((X4 \in X1) \wedge (k4_tarski \\ X2 X3 \in X0) \wedge (k4_tarski X3 X4 \in X0)))))) \Rightarrow (k4_tarski X2 X4 \in X0)) \end{aligned} \quad (9)$$

Assume the following.

$$\forall X0. (l1_orders_2 X0) \Rightarrow ((v4_orders_2 X0) \Leftrightarrow (r8_relat_2 (u1_orders_2 X0) (u1_struct_0 X0))) \quad (10)$$

Assume the following.

$$k2_oposet_1 = g2_qmax_1 np_1 (k1_partit_2 np_1 np_1) k8_funct_5 \quad (11)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (v1_relat_1 X0) \quad (12)$$

Assume the following.

$$\forall X0. (l2_qmax_1 X0) \Rightarrow ((v3_qmax_1 X0) \Rightarrow (X0 = g2_qmax_1 (u1_struct_0 X0) (u1_orders_2 X0) (u1_robbins1 X0))) \quad (13)$$

Theorem 1 $v4_orders_2 k2_oposet_1$.