

t25_neckla.3 (TM-
byQ9FReHSv7qeT1Pg8M5w76Y8XQEz4kDt)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v3_necklace : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_neckla_2 : \iota \Rightarrow o$ be given. Let $k3_necklace : \iota \Rightarrow \iota$ be given. Let $r2_necklace : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_necklace : \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $r1_necklace : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v3_necklace X0) \wedge (l1_orders_2 X0))) \Rightarrow ((r2_necklace (k4_necklace np_4) X0) \Leftrightarrow (r2_necklace (k4_necklace np_4) (k3_necklace X0))) \quad (1)$$

Assume the following.

$$((v2_xxreal_0 np_4) \wedge (m2_subset_1 np_4 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_4 k5_numbers) \wedge (m1_subset_1 np_4 k1_numbers)) \quad (2)$$

Assume the following.

$$\neg v1_xboole_0 np_4 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \wedge ((\neg v2_struct_0 X1) \wedge (l1_orders_2 X1))) \Rightarrow ((r2_necklace X0 X1) \Leftrightarrow (r1_necklace X0 X1)) \quad (4)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (5)$$

Assume the following.

$$\forall X0. ((\neg v1_xboole_0 X0) \wedge (v7_ordinal1 X0)) \Rightarrow ((\neg v2_struct_0 (k4_necklace X0)) \wedge (v1_orders_2 (k4_necklace X0))) \quad (6)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow ((\neg v2_struct_0 (k3_necklace X0)) \wedge (v1_orders_2 (k3_necklace X0))) \quad (7)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((v1_orders_2 (k4_necklace X0)) \wedge (l1_orders_2 (k4_necklace X0))) \quad (8)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow ((v1_orders_2 (k3_necklace X0)) \wedge (l1_orders_2 (k3_necklace X0))) \quad (9)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow ((v1_neckla_2 X0) \Leftrightarrow (\neg r1_necklace (k4_necklace np_4) X0)) \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (11)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v3_necklace X0) \wedge (l1_orders_2 X0))) \Rightarrow ((v1_neckla_2 X0) \Leftrightarrow (v1_neckla_2 (k3_necklace X0)))$$