

t7_robbins4
(TMaMDedciSahfuDsTWN2bVLEfFF1sBsHiPs)

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Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k14_lattice3 : \iota \Rightarrow \iota$ be given. Let $k1_robbins4 : \iota$ be given. Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $np_2 : \iota$ be given. Let $k2_yellow_1 : \iota \Rightarrow \iota$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $k1_yellow_1 : \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v10_lattices : \iota \Rightarrow o$ be given. Let $l3_lattices : \iota \Rightarrow o$ be given. Let $k2_lattice3 : \iota \Rightarrow \iota$ be given. Let $k8_filter_1 : \iota \Rightarrow \iota$ 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 $g1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. 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 $v2_lattice3 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_relat_2 : \iota \Rightarrow o$ be given. Let $v4_relat_2 : \iota \Rightarrow o$ be given. Let $v8_relat_2 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_lattices : \iota \Rightarrow o$ be given. Let $k3_lattice3 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(u1_struct_0 (k2_yellow_1 X0) = X0) \wedge (u1_orders_2 (k2_yellow_1 X0) = k1_yellow_1 X0) \quad (1)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v10_lattices X0) \wedge (l3_lattices X0))) \Rightarrow (k2_lattice3 X0 = k8_filter_1 X0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))) \Rightarrow (\forall X2.\forall X3.(g1_orders_2 X0 X1 = g1_orders_2 X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \quad (3)$$

Assume the following.

$$\forall X0.(v1_orders_2 (k2_yellow_1 X0) \wedge ((v3_orders_2 (k2_yellow_1 X0) \wedge (v4_orders_2 (k2_yellow_1 X0) \wedge (v5_orders_2 (k2_yellow_1 X0)))))) \quad (4)$$

Assume the following.

$$(v1_lattice3\ k1_robbins4) \wedge (v2_lattice3\ k1_robbins4) \quad (5)$$

Assume the following.

$$\forall X0. (v1_orders_2\ (k2_yellow_1\ X0)) \wedge (l1_orders_2\ (k2_yellow_1\ X0)) \quad (6)$$

Assume the following.

$$\forall X0. (v1_relat_2\ (k1_yellow_1\ X0)) \wedge ((v4_relat_2\ (k1_yellow_1\ X0)) \wedge ((v8_relat_2\ (k1_yellow_1\ X0)) \wedge ((v1_partfun1\ (k1_yellow_1\ X0)\ X0) \wedge (m1_subset_1\ (k1_yellow_1\ X0)\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X0)))))) \quad (7)$$

Assume the following.

$$\forall X0. (l1_orders_2\ X0) \Rightarrow ((\neg v2_struct_0\ (k14_lattice3\ X0)) \wedge ((v3_lattices\ (k14_lattice3\ X0)) \wedge ((v10_lattices\ (k14_lattice3\ X0)) \wedge (l3_lattices\ (k14_lattice3\ X0)))))) \quad (8)$$

Assume the following.

$$k1_robbins4 = k2_yellow_1\ (k4_enumset1\ k6_numbers\ np_1\ (k6_subset_1\ np_3\ np_1)\ np_2\ (k6_subset_1\ np_3\ np_2)\ np_3) \quad (9)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0\ X0) \wedge ((v10_lattices\ X0) \wedge (l3_lattices\ X0))) \Rightarrow (k3_lattice3\ X0 = g1_orders_2\ (u1_struct_0\ X0)\ (k2_lattice3\ X0)) \quad (10)$$

Assume the following.

$$\forall X0. (l1_orders_2\ X0) \Rightarrow (((v3_orders_2\ X0) \wedge ((v4_orders_2\ X0) \wedge ((v5_orders_2\ X0) \wedge ((v1_lattice3\ X0) \wedge ((v2_lattice3\ X0) \wedge (l1_orders_2\ X0)))))) \Rightarrow (\forall X1. ((\neg v2_struct_0\ X1) \wedge ((v3_lattices\ X1) \wedge ((v10_lattices\ X1) \wedge (l3_lattices\ X1)))) \Rightarrow ((X1 = k14_lattice3\ X0) \Leftrightarrow (g1_orders_2\ (u1_struct_0\ X0)\ (u1_orders_2\ X0) = k3_lattice3\ X1)))) \quad (11)$$

Theorem 1

$$u1_struct_0\ (k14_lattice3\ k1_robbins4) = k4_enumset1\ k6_numbers\ np_1\ (k6_subset_1\ np_3\ np_1)\ np_2\ (k6_subset_1\ np_3\ np_2)\ np_3$$