

t29_robbins4 (TMWicUyKVnnry- WMjyta3HM64MLRbSgushhq)

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Let $k5_lattices : \iota \Rightarrow \iota$ be given. Let $k2_robbins4 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v4_robbins1 : \iota \Rightarrow o$ be given. Let $l4_robbins1 : \iota \Rightarrow o$ be given. Let $l2_robbins1 : \iota \Rightarrow o$ be given. Assume the following.

$$u1_struct_0\ k2_robbins4 = k4_enumset1\ k6_numbers\ np_1\ (k6_subset_1\ np_3\ np_1)\ np_2\ (k6_subset_1\ np_3\ np_2)\ np_3 \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1\ X0\ (u1_struct_0\ k2_robbins4)) \Rightarrow (\forall X1. \\ & (m1_subset_1\ X1\ (u1_struct_0\ k2_robbins4)) \Rightarrow ((X0 = k6_numbers) \Rightarrow \\ & (k3_lattices\ k2_robbins4\ X0\ X1 = X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1\ X0\ X1) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0\ X0) \wedge ((v10_lattices\ X0) \wedge (l3_lattices \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ X0)) \Rightarrow ((\forall X2. \\ & (m1_subset_1\ X2\ (u1_struct_0\ X0)) \Rightarrow (k3_lattices\ X0\ X1\ X2 = X2)) \Rightarrow \\ & (X1 = k5_lattices\ X0))) \end{aligned} \quad (4)$$

Assume the following.

$$(v10_lattices\ k2_robbins4) \wedge (v4_robbins1\ k2_robbins4) \quad (5)$$

Assume the following.

$$(\neg v2_struct_0\ k2_robbins4) \wedge (v4_robbins1\ k2_robbins4) \quad (6)$$

Assume the following.

$$\forall X0.(l4_robbins1 X0) \Rightarrow ((l2_robbins1 X0) \wedge (l3_lattices X0)) \quad (7)$$

Assume the following.

$$(v4_robbins1 k2_robbins4) \wedge (l4_robbins1 k2_robbins4) \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ & \forall X6.(X6 = k4_enumset1 X0 X1 X2 X3 X4 X5) \Leftrightarrow (\forall X7.(X7 \in X6) \Leftrightarrow \\ & (\neg(X7 \neq X0) \wedge ((X7 \neq X1) \wedge ((X7 \neq X2) \wedge ((X7 \neq X3) \wedge ((X7 \neq X4) \wedge (X7 \neq X5))))))) \end{aligned} \quad (9)$$

Theorem 1 $k5_lattices k2_robbins4 = k6_numbers$.