

t47_robins2 (TMb- VcJJ3SbGA12WnmccavMzkFX7MtLAFrWj)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_robins2 : \iota \Rightarrow o$ be given. Let $l2_robins1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k5_robins1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_robins1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_lattices : \iota \Rightarrow o$ be given. Let $l2_lattices : \iota \Rightarrow o$ be given. Let $l1_robins1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v1_robins2 X0) \wedge (l2_robins1 X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (k3_robins1 X0 (k3_robins1 X0 X1) = X1)) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v1_robins2 X0) \wedge (l2_robins1 X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 \\ & (u1_struct_0 X0)) \Rightarrow (k3_robins1 X0 (k1_lattices X0 (k3_robins1 \\ & X0 (k1_lattices X0 (k3_robins1 X0 (k1_lattices X0 (k3_robins1 \\ & X0 (k1_lattices X0 X1 X2)) X3)) (k3_robins1 X0 (k1_lattices X0 (\\ & k3_robins1 X0 X1) X2)))) X2) = k3_robins1 X0 (k1_lattices X0 (k3_robins1 \\ & X0 X1) X2)))))) \quad (2) \end{aligned}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0) \wedge ((v4_lattices X0) \wedge (l2_robins1 X0))) \wedge ((m1_subset_1 X1 (u1_struct_0 X0)) \wedge (m1_subset_1 X2 (u1_struct_0 X0)))) \Rightarrow (k5_robins1 X0 X1 X2 = k1_lattices X0 X1 X2) \quad (3)$$

Assume the following.

$$\forall X0.(l2_robins1 X0) \Rightarrow ((l2_lattices X0) \wedge (l1_robins1 X0)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0)\wedge((v4_lattices X0)\wedge(l2_robbins1 X0)))\wedge((m1_subset_1 X1 (u1_struct_0 X0))\wedge(m1_subset_1 X2 (u1_struct_0 X0))))\Rightarrow(m1_subset_1 (k5_robbins1 X0 X1 X2) (u1_struct_0 X0)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2_struct_0 X0)\wedge(l1_robbins1 X0))\wedge(m1_subset_1 X1 (u1_struct_0 X0)))\Rightarrow(m1_subset_1 (k3_robbins1 X0 X1) (u1_struct_0 X0)) \quad (6)$$

Assume the following.

$$\forall X0.(l2_robbins1 X0)\Rightarrow(((\neg v2_struct_0 X0)\wedge(v1_robbins2 X0))\Rightarrow((\neg v2_struct_0 X0)\wedge(v4_lattices X0))) \quad (7)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0)\wedge((v1_robbins2 X0)\wedge(l2_robbins1 X0)))\Rightarrow(\forall X1.(m1_subset_1 X1 (u1_struct_0 X0))\Rightarrow(\forall X2.(m1_subset_1 X2 (u1_struct_0 X0))\Rightarrow(\forall X3.(m1_subset_1 X3 (u1_struct_0 X0))\Rightarrow(k5_robbins1 X0 (k3_robbins1 X0 (k5_robbins1 X0 (k3_robbins1 X0 (k5_robbins1 X0 X1 X2)) X3)) (k3_robbins1 X0 (k5_robbins1 X0 (k3_robbins1 X0 X1 X2)))) X2 = k3_robbins1 X0 (k3_robbins1 X0 (k5_robbins1 X0 (k3_robbins1 X0 X1 X2))))))$$