

t48_robins2 (TMTagkarqyUfKKnLNLK- dAyWt1SogQ9TmCzp)

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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 $l2_lattices : \iota \Rightarrow o$ be given. Let $l1_robins1 : \iota \Rightarrow o$ be given. Let $v4_lattices : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_robins2 X0) \wedge (l2_robins1 \\ X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\ (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 \\ (u1_struct_0 X0)) \Rightarrow (k5_robins1 X0 (k3_robins1 X0 (k5_robins1 \\ X0 (k3_robins1 X0 (k5_robins1 X0 (k3_robins1 X0 (k5_robins1 \\ X0 X1 X2)) X3)) (k3_robins1 X0 (k5_robins1 X0 (k3_robins1 X0 X1 \\ X2)))) X2 = k3_robins1 X0 (k3_robins1 X0 (k5_robins1 X0 (k3_robins1 \\ X0 X1 X2))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_robins2 X0) \wedge (l2_robins1 \\ X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (k3_robins1 \\ X0 (k3_robins1 X0 X1) = X1)) \quad (2)$$

Assume the following.

$$\forall X0. (l2_robins1 X0) \Rightarrow ((l2_lattices X0) \wedge (l1_robins1 X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge ((v4_lattices \\ X0) \wedge (l2_robins1 X0))) \wedge ((m1_subset_1 X1 (u1_struct_0 X0)) \wedge \\ (m1_subset_1 X2 (u1_struct_0 X0)))) \Rightarrow (m1_subset_1 (k5_robins1 \\ X0 X1 X2) (u1_struct_0 X0)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (((\neg v2_struct_0 X0) \wedge (l1_robins1 X0)) \wedge \\ (m1_subset_1 X1 (u1_struct_0 X0))) \Rightarrow (m1_subset_1 (k3_robins1 \\ X0 X1) (u1_struct_0 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(l2_robbins1\ X0)\Rightarrow(((\neg v2_struct_0\ X0)\wedge(v1_robbins2\ X0))\Rightarrow((\neg v2_struct_0\ X0)\wedge(v4_lattices\ X0))) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0\ X0)\wedge((v1_robbins2\ X0)\wedge(l2_robbins1\ X0)))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ X0))\Rightarrow(\forall X2. \\ & (m1_subset_1\ X2\ (u1_struct_0\ X0))\Rightarrow(\forall X3.(m1_subset_1\ X3\ (u1_struct_0\ X0))\Rightarrow(k5_robbins1\ X0\ (k3_robbins1\ X0\ (k5_robbins1\ X0\ (k3_robbins1\ X0\ (k5_robbins1\ X0\ X1\ X2))\ X3))\ (k3_robbins1\ X0\ (k5_robbins1\ X0\ (k3_robbins1\ X0\ X1\ X2))))\ X2 = k5_robbins1\ X0\ (k3_robbins1\ X0\ X1\ X2)))) \end{aligned}$$