

t22_robins3 (TMbvihyhyNZwmT- fqE9A1Uwk3YYBgrtVU7uC)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v10_robins3 : \iota \Rightarrow o$ be given. Let $l3_robins3 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l2_robins3 : \iota \Rightarrow o$ be given. Let $l1_robins3 : \iota \Rightarrow o$ be given. Let $l3_lattices : \iota \Rightarrow o$ be given. Let $l2_lattices : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $k1_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(l3_robins3 X0) \Rightarrow ((l2_robins3 X0) \wedge ((l1_robins3 X0) \wedge (l3_lattices X0))) \quad (1)$$

Assume the following.

$$\forall X0.(l1_robins3 X0) \Rightarrow ((l2_lattices X0) \wedge (l1_orders_2 X0)) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge (l2_lattices X0)) \Rightarrow (\forall X1. \\ (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 \\ (u1_struct_0 X0)) \Rightarrow ((r1_lattices X0 X1 X2) \Leftrightarrow (k1_lattices X0 X1 X2 = \\ X2)))) \quad (3) \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge (l1_robins3 X0)) \Rightarrow ((v10_robins3 \\ X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\ (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow ((r1_orders_2 X0 X1 X2) \Leftrightarrow (k1_lattices \\ X0 X1 X2 = X2)))))) \quad (4) \end{aligned}$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v10_robins3 X0) \wedge (l3_robins3 \\ X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\ (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow ((r1_orders_2 X0 X1 X2) \Leftrightarrow (r1_lattices \\ X0 X1 X2)))) \end{aligned}$$