

t24_robbins4 (TMTPwP- NdP3oViNCFsDFp4Zs3pGx5iDcXMKc)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_robbins4 : \iota$ be given. Let $r3_lattices : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k2_yellow_1 : \iota \Rightarrow \iota$ be given. Let $r3_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $k1_yellow_1 : \iota \Rightarrow \iota$ be given. Let $k1_robbins4 : \iota$ 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.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (u1_struct_0 \\ (k2_yellow_1 \ X0))) \Rightarrow (\forall X2. (m1_subset_1 \ X2 \ (u1_struct_0 \\ (k2_yellow_1 \ X0))) \Rightarrow ((r3_orders_2 \ (k2_yellow_1 \ X0) \ X1 \ X2) \Leftrightarrow (r1_tarski \\ X1 \ X2)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. (u1_struct_0 \ (k2_yellow_1 \ X0) = X0) \wedge (u1_orders_2 \ (k2_yellow_1 \ X0) = k1_yellow_1 \ X0) \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_subset_1 \ X0 \ (u1_struct_0 \ k1_robbins4)) \Rightarrow (\forall X1. \\ (m1_subset_1 \ X1 \ (u1_struct_0 \ k1_robbins4)) \Rightarrow (\forall X2. (m1_subset_1 \\ X2 \ (u1_struct_0 \ k2_robbins4)) \Rightarrow (\forall X3. (m1_subset_1 \ X3 \ (u1_struct_0 \\ k2_robbins4)) \Rightarrow (((X0 = X2) \wedge (X1 = X3)) \Rightarrow ((r3_orders_2 \ k1_robbins4 \\ X0 \ X1) \Leftrightarrow (r3_lattices \ k2_robbins4 \ X2 \ X3)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. \forall X4. \forall X5. \neg v1_xboole_0 \ (k4_enumset1 \ X0 \ X1 \ X2 \ X3 \ X4 \ X5) \quad (5)$$

Assume the following.

$$k1_robbins4 = k2_yellow_1 (k4_enumset1 k6_numbers np_1 (k6_subset_1 np_3 np_1) np_2 (k6_subset_1 np_3 np_2) np_3) \quad (6)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 (u1_struct_0 k2_robbins4)) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 k2_robbins4)) \Rightarrow ((r3_lattices k2_robbins4 X0 X1) \Leftrightarrow (r1_tarski X0 X1)))$$