

t48_yellow_0

(TMYxcqsTuQQydtarJcXeWzGT7XPTo21erSx)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(r2_yellow_0 X0 X1) \Leftrightarrow \\ & (\exists X2.(m1_subset_1 X2 (u1_struct_0 X0)) \wedge (r1_lattice3 \\ & X0 X1 X2) \wedge ((\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow ((r1_lattice3 \\ & X0 X1 X3) \Rightarrow (r1_orders_2 X0 X3 X2)))) \wedge (\forall X3.(m1_subset_1 X3 \\ & (u1_struct_0 X0)) \Rightarrow (((r1_lattice3 X0 X1 X3) \wedge (\forall X4.(m1_subset_1 \\ & X4 (u1_struct_0 X0)) \Rightarrow ((r1_lattice3 X0 X1 X4) \Rightarrow (r1_orders_2 X0 X4 \\ & X3)))) \Rightarrow (X3 = X2)))))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ & \forall X2.((\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow ((\\ & r1_lattice3 X0 X1 X3) \Leftrightarrow (r1_lattice3 X0 X2 X3))) \wedge (r2_yellow_0 X0 \\ & X1)) \Rightarrow (r2_yellow_0 X0 X2)) \end{aligned}$$