

t49_yellow_0

(TMaU8Cx8tSGMR7pmK2pbkU4dULDxf9PN7jk)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $r2_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k2_yellow_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ \forall X2.((\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow ((\\ r1_lattice3 X0 X1 X3) \Leftrightarrow (r1_lattice3 X0 X2 X3))) \wedge (r2_yellow_0 X0 \\ X1)) \Rightarrow (r2_yellow_0 X0 X2)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(r2_yellow_0 X0 X1) \Leftrightarrow \\ (\exists X2.(m1_subset_1 X2 (u1_struct_0 X0)) \wedge ((r1_lattice3 \\ X0 X1 X2) \wedge ((\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow ((r1_lattice3 \\ X0 X1 X3) \Rightarrow (r1_orders_2 X0 X3 X2))) \wedge (\forall X3.(m1_subset_1 X3 \\ (u1_struct_0 X0)) \Rightarrow (((r1_lattice3 X0 X1 X3) \wedge (\forall X4.(m1_subset_1 \\ X4 (u1_struct_0 X0)) \Rightarrow ((r1_lattice3 X0 X1 X4) \Rightarrow (r1_orders_2 X0 X4 \\ X3)))) \Rightarrow (X3 = X2)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.\forall X2.(m1_subset_1 \\ X2 (u1_struct_0 X0)) \Rightarrow ((r2_yellow_0 X0 X1) \Rightarrow ((X2 = k2_yellow_0 X0 \\ X1) \Leftrightarrow ((r1_lattice3 X0 X1 X2) \wedge (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\ X0)) \Rightarrow ((r1_lattice3 X0 X1 X3) \Rightarrow (r1_orders_2 X0 X3 X2)))))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ \forall X2.((r2_yellow_0 X0 X1) \wedge (\forall X3.(m1_subset_1 X3 (\\ u1_struct_0 X0)) \Rightarrow ((r1_lattice3 X0 X1 X3) \Leftrightarrow (r1_lattice3 X0 X2 X3)))) \Rightarrow \\ (k2_yellow_0 X0 X1 = k2_yellow_0 X0 X2)) \end{aligned}$$