

t30_yellow_7

(TMM8PNbPFfsPLaa3ePkJAu1qUXMcbbmvHVBn)

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Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_yellow_0 : \iota \Rightarrow o$ be given. Let $v2_yellow_0 : \iota \Rightarrow o$ be given. Let $k7_lattice3 : \iota \Rightarrow \iota$ 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 $r2_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ (k7_lattice3 X0))) \Rightarrow (\forall X2.((r1_lattice3 (k7_lattice3 X0) \\ X2 X1) \Rightarrow (r2_lattice3 X0 X2 (k9_lattice3 X0 X1))) \wedge ((r2_lattice3 \\ X0 X2 (k9_lattice3 X0 X1)) \Rightarrow (r1_lattice3 (k7_lattice3 X0) X2 X1)) \wedge \\ ((r2_lattice3 (k7_lattice3 X0) X2 X1) \Rightarrow (r1_lattice3 X0 X2 (k9_lattice3 \\ X0 X1))) \wedge ((r1_lattice3 X0 X2 (k9_lattice3 X0 X1)) \Rightarrow (r2_lattice3 \\ (k7_lattice3 X0) X2 X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (u1_struct_0 X0 = u1_struct_0 (k7_lattice3 X0)) \quad (2)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow ((v1_orders_2 (k7_lattice3 X0)) \wedge (l1_orders_2 (k7_lattice3 X0))) \quad (3)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k7_lattice3 X0))) \Rightarrow (k9_lattice3 X0 X1 = X1)) \quad (4)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow ((v2_yellow_0 X0) \Leftrightarrow (\exists X1.(m1_subset_1 X1 (u1_struct_0 X0)) \wedge (r2_lattice3 X0 (u1_struct_0 X0) X1))) \quad (5)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow ((v1_yellow_0 X0) \Leftrightarrow (\exists X1.(m1_subset_1 X1 (u1_struct_0 X0)) \wedge (r1_lattice3 X0 (u1_struct_0 X0) X1))) \quad (6)$$

Theorem 1

$$\forall X0.(l1_orders_2 X0) \Rightarrow ((v1_yellow_0 X0) \Leftrightarrow (v2_yellow_0 (k7_lattice3 X0)))$$