

t46_yellow_7 (TMYiPxN-
QwD4b9LVSe2AjxeUam4chMTFvRQV)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_pboole : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k7_lattice3 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (u1_struct_0 X0 = u1_struct_0 (k7_lattice3 X0)) \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ & \forall X2.((v1_relat_1 X2) \wedge ((v4_relat_1 X2 X1) \wedge ((v1_funct_1 \\ & X2) \wedge (v1_partfun1 X2 X1)))) \Rightarrow (\forall X3.(m2_pboole X3 X1 X2 (k7_funcop_1 \\ & X1 (u1_struct_0 X0))) \Leftrightarrow (m2_pboole X3 X1 X2 (k7_funcop_1 X1 (u1_struct_0 \\ & (k7_lattice3 X0)))))) \end{aligned}$$