

t9_net_1 (TMYjUFoovn- qLz9pE2CMqH6L3LWuWpjxEEkL)

October 27, 2020

Let $v1_net_1 : \iota \Rightarrow o$ be given. Let $l1_petri : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_net_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_net_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_net_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l1_petri\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k2_net_1 \\ X0)) \Rightarrow (\forall X2.(X2 = k3_net_1\ X0\ X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((\\ X3 \in k2_net_1\ X0) \wedge (k4_tarski\ X3\ X1 \in k1_net_1\ X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski\ X0\ X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Theorem 1

$$\forall X0.((v1_net_1\ X0) \wedge (l1_petri\ X0)) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k2_net_1\ X0)) \Rightarrow (r1_tarski\ (k3_net_1\ X0\ X1)\ (k2_net_1\ X0)))$$