

t21_net_1

(TMRqasMpXj71MrYoVnEckA4jRVBH9qtQHjJ)

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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 $k1_xboole_0 : \iota$ be given. Let $k5_net_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_net_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_net_1 X0) \wedge (l1_petri X0)) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 (k2_net_1 X0)) \Rightarrow ((k2_net_1 X0 \neq k1_xboole_0) \Rightarrow (r1_tarSKI (k5_net_1 \\ X0 X1) (k2_net_1 X0)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_net_1 X0) \wedge (l1_petri X0)) \Rightarrow (\forall X1. \forall X2. \\ (X2 = k10_net_1 X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((r1_tarSKI X3 (k2_net_1 \\ X0)) \wedge (\exists X4.(m1_subset_1 X4 (k2_net_1 X0)) \wedge ((X4 \in X1) \wedge (X3 = \\ k5_net_1 X0 X4))))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_net_1 X0) \wedge (l1_petri X0)) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 (k2_net_1 X0)) \Rightarrow (\forall X2.(X1 \in X2) \Rightarrow ((k2_net_1 X0 = k1_xboole_0) \vee \\ (k5_net_1 X0 X1 \in k10_net_1 X0 X2)))) \end{aligned}$$