

t6_petri_2 (TMN- SnqFDnz1av7sG2CyLEZA6XZV49X364ws)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v11_struct_0 : \iota \Rightarrow o$ be given. Let $v2_petri : \iota \Rightarrow o$ be given. Let $v3_petri : \iota \Rightarrow o$ be given. Let $l1_petri_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $v3_petri_2 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $u2_petri_2 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_petri_2 : \iota \Rightarrow \iota$ be given. Let $k8_petri : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_petri : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_petri_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_petri_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((\neg v11_struct_0 X0) \wedge ((v2_petri \\
& X0) \wedge ((v3_petri X0) \wedge (l1_petri_2 X0)))))) \Rightarrow ((v3_petri_2 X0) \Leftrightarrow ((\\
& r1_tarski (k9_xtuple_0 (u2_petri_2 X0)) (k6_subset_1 (u4_struct_0 \\
& X0) (k8_petri_2 X0))) \wedge (\forall X1. (m1_subset_1 X1 (u4_struct_0 \\
& X0)) \Rightarrow (\neg (X1 \in k9_xtuple_0 (u2_petri_2 X0)) \wedge (\forall X2. ((\neg v1_xboole_0 \\
& X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_petri_2 X0)))))) \Rightarrow (\forall X3. \\
& (m1_subset_1 X3 (k1_zfmisc_1 (k8_petri X0 (k6_domain_1 (u4_struct_0 \\
& X0) X1)))))) \Rightarrow (\forall X4. (m1_subset_1 X4 (k1_zfmisc_1 (k9_petri \\
& X0 (k6_domain_1 (u4_struct_0 X0) X1)))))) \Rightarrow (\neg (v1_funct_1 (k1_funct_1 \\
& (u2_petri_2 X0) X1)) \wedge ((v1_funct_2 (k1_funct_1 (u2_petri_2 X0) \\
& X1) (k2_petri_2 X2 X3) (k2_petri_2 X2 X4)) \wedge (m1_subset_1 (k1_funct_1 \\
& (u2_petri_2 X0) X1) (k1_zfmisc_1 (k2_zfmisc_1 (k2_petri_2 X2 X3) \\
& (k2_petri_2 X2 X4)))))))))))))
\end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((\neg v11_struct_0 X0) \wedge ((v2_petri \\ & X0) \wedge ((v3_petri X0) \wedge (l1_petri_2 X0)))))) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 (u4_struct_0 X0)) \Rightarrow (\neg(v3_petri_2 X0) \wedge ((X1 \in k9_xtuple_0 (u2_petri_2 \\ X0)) \wedge (\forall X2.((\neg v1_xboole_0 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 \\ (u1_petri_2 X0)))) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 \\ (k8_petri X0 (k6_domain_1 (u4_struct_0 X0) X1)))) \Rightarrow (\forall X4. \\ (m1_subset_1 X4 (k1_zfmisc_1 (k9_petri X0 (k6_domain_1 (u4_struct_0 \\ X0) X1)))) \Rightarrow (\neg(v1_funct_1 (k1_funct_1 (u2_petri_2 X0) X1)) \wedge ((\\ v1_funct_2 (k1_funct_1 (u2_petri_2 X0) X1) (k2_petri_2 X2 X3) (\\ k2_petri_2 X2 X4)) \wedge (m1_subset_1 (k1_funct_1 (u2_petri_2 X0) X1) \\ (k1_zfmisc_1 (k2_zfmisc_1 (k2_petri_2 X2 X3) (k2_petri_2 X2 X4)))))))))))))) \end{aligned}$$