

t22_ff_siec

(TMcmMapp8j2Fe2U8jMfsK7vPygbAJAmHckc)

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Let $v1_net_1 : \iota \Rightarrow o$ be given. Let $l1_petri : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k13_ff_siec : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_ff_siec : \iota \Rightarrow \iota$ be given. Let $k11_ff_siec : \iota \Rightarrow \iota$ be given. Let $k14_ff_siec : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k5_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_net_1 : \iota \Rightarrow \iota$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_relat_1 : \iota \Rightarrow \iota$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. ((v1_net_1 X0) \wedge (l1_petri X0)) \Rightarrow ((r1_tarski (k10_xtuple_0 \\
 & (k5_relat_1 (k1_net_1 X0) (u4_struct_0 X0))) (u1_struct_0 X0)) \wedge \\
 & ((r1_tarski (k10_xtuple_0 (k5_relat_1 (k2_relat_1 (k1_net_1 \\
 & X0) (u4_struct_0 X0))) (u1_struct_0 X0)) \wedge ((r1_tarski (k10_xtuple_0 \\
 & (k5_relat_1 (k1_net_1 X0) (u1_struct_0 X0))) (u4_struct_0 X0)) \wedge \\
 & ((r1_tarski (k10_xtuple_0 (k5_relat_1 (k2_relat_1 (k1_net_1 \\
 & X0) (u1_struct_0 X0))) (u4_struct_0 X0)) \wedge ((r1_tarski (k10_xtuple_0 \\
 & (k4_relat_1 (u4_struct_0 X0))) (u4_struct_0 X0)) \wedge ((r1_tarski \\
 & (k9_xtuple_0 (k4_relat_1 (u4_struct_0 X0))) (u4_struct_0 X0)) \wedge \\
 & ((r1_tarski (k10_xtuple_0 (k4_relat_1 (u1_struct_0 X0))) (u1_struct_0 \\
 & X0)) \wedge (r1_tarski (k9_xtuple_0 (k4_relat_1 (u1_struct_0 X0))) \\
 & (u1_struct_0 X0))))))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow (r1_tarski (k9_xtuple_0 (k5_relat_1 X1 X0)) X0) \tag{2}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow (((r1_tarski \\
 & (k9_xtuple_0 X2) X0) \wedge (r1_tarski (k10_xtuple_0 X2) X1)) \Rightarrow (m1_subset_1 \\
 & X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))))
 \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1))\Leftrightarrow(r1_tarski X0 X1) \quad (4)$$

Assume the following.

$$\forall X0.(l1_petri X0)\Rightarrow(v1_relat_1 (k1_net_1 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0)\Rightarrow(v1_relat_1 (k2_relat_1 X0)) \quad (6)$$

Assume the following.

$$\forall X0.((v1_net_1 X0)\wedge(l1_petri X0))\Rightarrow(v1_relat_1 (k14_ff_siec X0)) \quad (7)$$

Assume the following.

$$\forall X0.((v1_net_1 X0)\wedge(l1_petri X0))\Rightarrow(v1_relat_1 (k13_ff_siec X0)) \quad (8)$$

Assume the following.

$$\forall X0.((v1_net_1 X0)\wedge(l1_petri X0))\Rightarrow(k14_ff_siec X0 = k5_relat_1 (k2_relat_1 (k1_net_1 X0)) (u4_struct_0 X0)) \quad (9)$$

Assume the following.

$$\forall X0.((v1_net_1 X0)\wedge(l1_petri X0))\Rightarrow(k13_ff_siec X0 = k5_relat_1 (k1_net_1 X0) (u4_struct_0 X0)) \quad (10)$$

Assume the following.

$$\forall X0.((v1_net_1 X0)\wedge(l1_petri X0))\Rightarrow(k12_ff_siec X0 = u4_struct_0 X0) \quad (11)$$

Assume the following.

$$\forall X0.((v1_net_1 X0)\wedge(l1_petri X0))\Rightarrow(k11_ff_siec X0 = u1_struct_0 X0) \quad (12)$$

Theorem 1

$$\forall X0.((v1_net_1 X0)\wedge(l1_petri X0))\Rightarrow((r1_tarski (k13_ff_siec X0) (k2_zfmisc_1 (k12_ff_siec X0) (k11_ff_siec X0)))\wedge(r1_tarski (k14_ff_siec X0) (k2_zfmisc_1 (k12_ff_siec X0) (k11_ff_siec X0))))$$