

t23_ff_siec

(TMJ4doq3X3EbeuamrWx8QwedxyeBeKPSnJ5)

October 27, 2020

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 $k9_ff_siec : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_net_1 : \iota \Rightarrow \iota$ be given. Let $k10_ff_siec : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_net_1 : \iota \Rightarrow \iota$ be given. Let $k2_relat_1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X2 X1)) \Rightarrow (r1_tarski (k2_xboole_0 X0 X2) X1) \quad (1)$$

Assume the following.

$$\forall X0. ((v1_net_1 X0) \wedge (l1_petri X0)) \Rightarrow ((r1_tarski (k1_net_1 X0) (k2_zfmisc_1 (k2_net_1 X0) (k2_net_1 X0))) \wedge (r1_tarski (k2_relat_1 (k1_net_1 X0) (k2_zfmisc_1 (k2_net_1 X0) (k2_net_1 X0)))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 (k2_xboole_0 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow ((r1_tarski X2 (k2_zfmisc_1 X0 X1)) \Rightarrow (r1_tarski (k2_relat_1 X2) (k2_zfmisc_1 X1 X0))) \quad (4)$$

Assume the following.

$$\forall X0. ((v1_net_1 X0) \wedge (l1_petri X0)) \Rightarrow ((k3_relat_1 (k9_ff_siec X0) (k9_ff_siec X0) = k9_ff_siec X0) \wedge ((k3_relat_1 (k4_xboole_0 (k9_ff_siec X0) (k4_relat_1 (k2_net_1 X0))) (k9_ff_siec X0) = k1_xboole_0) \wedge (k2_xboole_0 (k2_xboole_0 (k9_ff_siec X0) (k2_relat_1 (k9_ff_siec X0))) (k4_relat_1 (k2_net_1 X0)) = k2_xboole_0 (k10_ff_siec X0) (k2_relat_1 (k10_ff_siec X0)))))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1_tarSKI X0 X1)\wedge(r1_tarSKI X1 X2))\Rightarrow(r1_tarSKI X0 X2) \quad (6)$$

Assume the following.

$$\forall X0.r1_tarSKI (k4_relat_1 X0) (k2_zfmisc_1 X0 X0) \quad (7)$$

Assume the following.

$$\forall X0.((v1_net_1 X0)\wedge(l1_petri X0))\Rightarrow(v1_relat_1 (k10_ff_siec X0)) \quad (8)$$

Assume the following.

$$\forall X0.((v1_net_1 X0)\wedge(l1_petri X0))\Rightarrow(k10_ff_siec X0 = k2_xboole_0 (k1_net_1 X0) (k4_relat_1 (k2_net_1 X0))) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (10)$$

Theorem 1

$$\forall X0.((v1_net_1 X0)\wedge(l1_petri X0))\Rightarrow((r1_tarSKI (k9_ff_siec X0) (k2_zfmisc_1 (k2_net_1 X0) (k2_net_1 X0)))\wedge(r1_tarSKI (k10_ff_siec X0) (k2_zfmisc_1 (k2_net_1 X0) (k2_net_1 X0))))$$