

l6_petri_2

(TMJL39J15PD9j53CayPCSyPaKdkHL2WHZEN)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_petri_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k4_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. r1_tarski (k1_funct_2 X0 X1) (k4_partfun1 X0 X1) \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (r1_tarski (k1_zfmisc_1 X0) (k1_zfmisc_1 X1)) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((r1_tarski X0 X1) \wedge (r1_tarski X2 X3)) \Rightarrow (r1_tarski (k4_partfun1 X0 X2) (k4_partfun1 X1 X3)) \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \tag{5}$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 X0 \tag{6}$$

Assume the following.

$$\forall X0. k9_setfam_1 X0 = k1_zfmisc_1 X0 \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(\neg v1_xboole_0 X1)\Rightarrow(k9_funct_2 X0 X1 = k1_funct_2 X0 X1) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(\neg v1_xboole_0 X0)\Rightarrow((\neg v1_xboole_0 (k2_petri_2 X0 X1))\wedge(m1_subset_1 (k2_petri_2 X0 X1) (k1_zfmisc_1 (k1_zfmisc_1 (k9_funct_2 X1 X0)))))) \quad (9)$$

Theorem 1

$$\forall X0.(\neg v1_xboole_0 X0)\Rightarrow(\forall X1.\forall X2.(r1_tarski X1 X2)\Rightarrow(r1_tarski (k2_petri_2 X0 X1) (k9_setfam_1 (k4_partfun1 X2 X0))))$$