

t22_graph_5 (TMP- WCv7cKLPbp7veR3Xuk6HWiLtiY9vwAmR)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_graph_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k7_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_graph_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ 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.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((r1_tarski X0 X1) \wedge (r1_tarski X2 X3)) \Rightarrow (r1_tarski (k4_xboole_0 X0 X3) (k4_xboole_0 X1 X2)) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_graph_1 X0)) \Rightarrow (\forall X1. (m2_finseq_1 X1 (u4_struct_0 X0)) \Rightarrow (\forall X2. (m2_finseq_1 X2 (u4_struct_0 X0)) \Rightarrow ((r1_tarski (k10_xtuple_0 X1) (k10_xtuple_0 X2)) \Rightarrow (r1_tarski (k2_graph_5 X0 X1) (k2_graph_5 X0 X2)))))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 X0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (k7_subset_1 X0 X1 X2 = k4_xboole_0 X1 X2) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2_struct_0 X0)\wedge(l1_graph_1 X0))\wedge (m1_finseq_1 X1 (u4_struct_0 X0)))\Rightarrow(m1_subset_1 (k2_graph_5 X0 X1) (k1_zfmisc_1 (u1_struct_0 X0))) \quad (7)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.((\neg v2_struct_0 X2)\wedge(l1_graph_1 X2))\Rightarrow(\forall X3.(m2_finseq_1 X3 (u4_struct_0 X2))\Rightarrow(\forall X4.(m2_finseq_1 X4 (u4_struct_0 X2))\Rightarrow(((r1_tarski (k10_xtuple_0 X3) (k10_xtuple_0 X4))\wedge(r1_tarski (k7_subset_1 (u1_struct_0 X2) (k2_graph_5 X2 X4) X0) X1))\Rightarrow(r1_tarski (k7_subset_1 (u1_struct_0 X2) (k2_graph_5 X2 X3) X0) X1))))))$$