

l24_graph_2 (TMYP- mQCbJ1meTwYLS9pNbKjByUbptbdsJhZ)

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Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k2_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k11_funct_7 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k5_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k7_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge ((v1_funct_1 X2) \wedge (v1_finseq_1 X2))) \Rightarrow ((X2 = k10_finseq_1 X0 X1) \Leftrightarrow ((k3_finseq_1 X2 = np_2) \wedge ((k1_funct_1 X2 np_1 = X0) \wedge (k1_funct_1 X2 np_2 = X1)))) \quad (1)$$

Assume the following.

$$(k2_finseq_1 np_1 = k1_tarski np_1) \wedge (k2_finseq_1 np_2 = k2_tarski np_1 np_2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k10_xtuple_0 (k11_funct_7 X0 X1) = k2_tarski X0 X1 \quad (3)$$

Assume the following.

$$((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \quad (4)$$

Assume the following.

$$((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \quad (5)$$

Assume the following.

$$\neg r1_xreal_0 \ np_2 \ np_1 \tag{6}$$

Assume the following.

$$\forall X0.k9_finseq_1 \ X0 = k5_finseq_1 \ X0 \tag{7}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 \ X0) \wedge ((m1_subset_1 \ X1 \ X0) \wedge (m1_subset_1 \ X2 \ X0))) \Rightarrow (k2_finseq_4 \ X0 \ X1 \ X2 = k10_finseq_1 \ X1 \ X2) \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.k10_xtuple_0 \ (k10_finseq_1 \ X0 \ X1) = k2_tarSKI \ X0 \ X1 \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.(v1_relat_1 \ (k10_finseq_1 \ X0 \ X1)) \wedge (v1_funct_1 \ (k10_finseq_1 \ X0 \ X1)) \tag{11}$$

Assume the following.

$$(\neg v1_xboole_0 \ k4_ordinal1) \wedge (v3_ordinal1 \ k4_ordinal1) \tag{12}$$

Assume the following.

$$\forall X0.\forall X1.v1_finseq_1 \ (k10_finseq_1 \ X0 \ X1) \tag{13}$$

Assume the following.

$$\forall X0.\forall X1.k10_finseq_1 \ X0 \ X1 = k7_finseq_1 \ (k9_finseq_1 \ X0) \ (k9_finseq_1 \ X1) \tag{14}$$

Theorem 1

$$(\neg r1_xreal_0 \ (k3_finseq_1 \ (k2_finseq_4 \ k5_numbers \ np_1 \ np_2)) \ np_1) \wedge ((np_1 \neq np_2) \wedge (k10_xtuple_0 \ (k2_finseq_4 \ k5_numbers \ np_1 \ np_2) = k2_tarSKI \ np_1 \ np_2))$$