

t60_graph_2

(TMa3sZ94CaAXxsLDo7d2zDUwHgMdXVQRRjW)

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Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_numbers : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k8_graph_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2_finseq_1 X0 k4_numbers) \Rightarrow (\forall X1.(m2_subset_1 \\ & X1 k1_numbers k5_numbers) \Rightarrow (\forall X2.(m2_subset_1 X2 k1_numbers \\ & k5_numbers) \Rightarrow (\forall X3.(m2_subset_1 X3 k1_numbers k5_numbers) \Rightarrow \\ & (((r1_xxreal_0 np_1 X1) \wedge ((r1_xxreal_0 X1 X2) \wedge (r1_xxreal_0 X2 \\ & (k3_finseq_1 X0)))) \Rightarrow ((X3 = k8_graph_2 X0 X1 X2) \Leftrightarrow ((r1_xxreal_0 \\ & X1 X3) \wedge ((r1_xxreal_0 X3 X2) \wedge ((\forall X4.(m2_subset_1 X4 k1_numbers \\ & k5_numbers) \Rightarrow ((r1_xxreal_0 X1 X4) \wedge (r1_xxreal_0 X4 X2)) \Rightarrow (r1_xxreal_0 \\ & (k1_funct_1 X0 X3) (k1_funct_1 X0 X4)))) \wedge (\forall X4.(m2_subset_1 \\ & X4 k1_numbers k5_numbers) \Rightarrow (\neg(r1_xxreal_0 X1 X4) \wedge ((\neg v1_xboole_0 \\ & X3 X4) \wedge (r1_xxreal_0 (k1_funct_1 X0 X4) (k1_funct_1 X0 X3))))))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (r1_xxreal_0 X0 X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \quad (4)$$

Assume the following.

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

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (6)$$

Assume the following.

$$\neg v1_finset_1 k4_ordinal1 \quad (7)$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((\neg v1_xboole_0 X0)\wedge((\neg v1_xboole_0 X1)\wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 X0))))\Rightarrow(\forall X2.(m2_subset_1 \\ X2 X0 X1)\Rightarrow(m1_subset_1 X2 X0)) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.((m1_finseq_1 X0 k4_numbers)\wedge \\ ((m1_subset_1 X1 k5_numbers)\wedge(m1_subset_1 X2 k5_numbers)))\Rightarrow \\ (m2_subset_1 (k8_graph_2 X0 X1 X2) k1_numbers k5_numbers) \end{aligned} \quad (10)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (11)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0)\Rightarrow(v1_xxreal_0 X0) \quad (12)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers)\Rightarrow(v1_xreal_0 X0) \quad (13)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Rightarrow(v1_finset_1 X0) \quad (14)$$

Theorem 1

$$\begin{aligned} \forall X0.(m2_finseq_1 X0 k4_numbers)\Rightarrow(\forall X1.(m2_subset_1 \\ X1 k1_numbers k5_numbers)\Rightarrow(((r1_xxreal_0 np_1 X1)\wedge(r1_xxreal_0 \\ X1 (k3_finseq_1 X0)))\Rightarrow(k8_graph_2 X0 X1 X1 = X1))) \end{aligned}$$