

t48_comput_1

(TMYYKS3gd5F3EEzJcLznNvpGEZStuw2tfwN)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v4_valued_0 : \iota \Rightarrow o$ be given. Let $v2_margrel1 : \iota \Rightarrow o$ be given. Let $v2_comput_1 : \iota \Rightarrow o$ be given. Let $k19_margrel1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_recdef_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v3_margrel1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_comput_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((\neg v1_xboole_0 X1) \wedge \\ & ((v3_margrel1 X1 X0) \wedge (m2_rfunct_3 X1 (k3_finseq_2 X0) X0 (k2_comput_1 \\ & X0)))) \Rightarrow (\forall X2. ((\neg v1_xboole_0 X2) \wedge ((v3_margrel1 X2 X0) \wedge \\ & (m2_rfunct_3 X2 (k3_finseq_2 X0) X0 (k2_comput_1 X0)))) \Rightarrow (((k19_margrel1 \\ & X1 = k6_numbers) \wedge ((k19_margrel1 X2 = k6_numbers) \wedge (k1_funct_1 \\ & X1 k1_xboole_0 = k1_funct_1 X2 k1_xboole_0))) \Rightarrow (X1 = X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 (k3_finseq_2 k5_numbers)) \wedge \\ & ((v1_funct_1 X0) \wedge ((v4_valued_0 X0) \wedge ((v2_margrel1 X0) \wedge (v2_comput_1 \\ & X0)))))) \Rightarrow ((v3_margrel1 X0 k5_numbers) \wedge (m2_rfunct_3 X0 (k3_finseq_2 \\ & k5_numbers) k5_numbers (k2_comput_1 k5_numbers))) \end{aligned} \quad (2)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v4_valued_0 X0))) \Rightarrow (k1_recdef_1 X0 X1 = k1_funct_1 X0 X1) \quad (5)$$

Assume the following.

$$(\neg v1_xboole_0 \ k4_ordinal1) \wedge (v3_ordinal1 \ k4_ordinal1) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v1_xboole_0 \ X0) \wedge ((v1_relat_1 \ X0) \wedge ((v4_relat_1 \\ & \ X0 \ (k3_finseq_2 \ k5_numbers)) \wedge ((v1_funct_1 \ X0) \wedge ((v4_valued_0 \\ & \ X0) \wedge ((v2_margrel1 \ X0) \wedge (v2_comput_1 \ X0)))))) \Rightarrow (\forall X1. (\\ & (\neg v1_xboole_0 \ X1) \wedge ((v1_relat_1 \ X1) \wedge ((v4_relat_1 \ X1 \ (k3_finseq_2 \\ & \ k5_numbers)) \wedge ((v1_funct_1 \ X1) \wedge ((v4_valued_0 \ X1) \wedge ((v2_margrel1 \\ & \ X1) \wedge (v2_comput_1 \ X1)))))) \Rightarrow (((k19_margrel1 \ X0 = k6_numbers) \wedge \\ & ((k19_margrel1 \ X1 = k6_numbers) \wedge (k1_recdef_1 \ X0 \ k1_xboole_0 = \\ & \ k1_recdef_1 \ X1 \ k1_xboole_0))) \Rightarrow (X0 = X1))) \end{aligned}$$