

t8_matrix_1 (TMQuMjPCzj-
vAu1Tfk93J11cTvb6BHTAWV9R)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_matrix_1 : \iota \Rightarrow o$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ 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 $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ 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 $k5_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.((v1_relat_1\ X1) \wedge ((\\ v1_funct_1\ X1) \wedge (v1_finseq_1\ X1))) \Rightarrow (\forall X2.((v1_relat_1 \\ X2) \wedge ((v1_funct_1\ X2) \wedge (v1_finseq_1\ X2)))) \Rightarrow (((k3_finseq_1\ X1 = \\ X0) \wedge (k3_finseq_1\ X2 = X0)) \Rightarrow (v1_matrix_1\ (k10_finseq_1\ X1\ X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.((v1_relat_1\ X2) \wedge ((v1_funct_1 \\ X2) \wedge (v1_finseq_1\ X2))) \Rightarrow ((X2 = k10_finseq_1\ X0\ X1) \Leftrightarrow ((k3_finseq_1 \\ X2 = np_2) \wedge ((k1_funct_1\ X2\ np_1 = X0) \wedge (k1_funct_1\ X2\ np_2 = X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0\ np_2) \wedge (m2_subset_1\ np_2\ k1_numbers\ k5_numbers)) \wedge \\ ((m1_subset_1\ np_2\ k5_numbers) \wedge (m1_subset_1\ np_2\ k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.(v1_relat_1\ (k10_finseq_1\ X0\ X1)) \wedge (v1_funct_1\ (k10_finseq_1\ X0\ X1)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.v1_finseq_1\ (k10_finseq_1\ X0\ X1) \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow \\ & (\forall X2.(m1_subset_1 X2 X0) \Rightarrow (\forall X3.(m1_subset_1 X3 X0) \Rightarrow \\ & (\forall X4.(m1_subset_1 X4 X0) \Rightarrow (v1_matrix_1 (k10_finseq_1 (\\ & k10_finseq_1 X1 X2) (k10_finseq_1 X3 X4))))))) \end{aligned}$$