

t63_matrix10 (TMbCG-
wdK7uPGNDtTFRZAiyA3U98KMKmua6w)

October 27, 2020

Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $r2_matrix10 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_matrix10 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_matrix_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k3_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_matrixr1 : \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ 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 $v3_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2. \\ & ((v1_matrix_1 X2) \wedge (m2_finseq_1 X2 (k3_finseq_2 k1_numbers))) \Rightarrow \\ & ((k4_tarski X0 X1 \in k2_matrix_1 X2) \Rightarrow (k3_matrix_1 k1_numbers (k4_matrixr1 \\ & X2) X0 X1 = k1_real_1 (k3_matrix_1 k1_numbers X2 X0 X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 \\ & X0 X1) \Leftrightarrow (r1_xxreal_0 (k4_xcmplx_0 X1) (k4_xcmplx_0 X0)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(\neg v1_xboole_0 X1) \Rightarrow (\\ & \forall X2.(m1_matrix_1 X2 X1 X0 X0) \Rightarrow ((k3_finseq_1 X2 = X0) \wedge ((k1_matrix_1 \\ & X2 = X0) \wedge (k2_matrix_1 X2 = k2_zfmisc_1 (k2_finseq_1 X0) (k2_finseq_1 \\ & X0)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1\ X0)\wedge(m1_matrix_1\ X1\ k1_numbers\ X0\ X0))\Rightarrow(k2_matrix10\ X0\ X1 = k4_matrixr1\ X1) \quad (5)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers)\Rightarrow(k1_real_1\ X0 = k4_xcmplx_0\ X0) \quad (6)$$

Assume the following.

$$v3_membered\ k1_numbers \quad (7)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1_xboole_0\ X0)\wedge((v7_ordinal1\ X1)\wedge(v7_ordinal1\ X2)))\Rightarrow(\forall X3.(m1_matrix_1\ X3\ X0\ X1\ X2)\Rightarrow((v1_matrix_1\ X3)\wedge(m2_finseq_1\ X3\ (k3_finseq_2\ X0)))) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(((v1_matrix_1\ X1)\wedge(m1_finseq_1\ X1\ (k3_finseq_2\ X0)))\wedge((v7_ordinal1\ X2)\wedge(v7_ordinal1\ X3)))\Rightarrow(m1_subset_1\ (k3_matrix_1\ X0\ X1\ X2\ X3)\ X0) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1\ X0)\wedge(m1_matrix_1\ X1\ k1_numbers\ X0\ X0))\Rightarrow(m1_matrix_1\ (k2_matrix10\ X0\ X1)\ k1_numbers\ X0\ X0) \quad (11)$$

Assume the following.

$$\begin{aligned} &\forall X0.((v1_matrix_1\ X0)\wedge(m2_finseq_1\ X0\ (k3_finseq_2\ k1_numbers)))\Rightarrow \\ &(\forall X1.((v1_matrix_1\ X1)\wedge(m2_finseq_1\ X1\ (k3_finseq_2\ k1_numbers)))\Rightarrow \\ &((r2_matrix10\ X0\ X1)\Leftrightarrow(\forall X2.(v7_ordinal1\ X2)\Rightarrow(\forall X3. \\ &(v7_ordinal1\ X3)\Rightarrow((k4_tarSKI\ X2\ X3 \in k2_matrix_1\ X0)\Rightarrow(r1_xxreal_0 \\ &(k3_matrix_1\ k1_numbers\ X0\ X2\ X3)\ (k3_matrix_1\ k1_numbers\ X1\ X2 \\ &X3)))))) \end{aligned} \quad (12)$$

Assume the following.

$$\forall X0.(v3_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v1_xreal_0\ X1)) \quad (13)$$

Theorem 1

$$\begin{aligned} &\forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(m1_matrix_1\ X1\ k1_numbers \\ &X0\ X0)\Rightarrow(\forall X2.(m1_matrix_1\ X2\ k1_numbers\ X0\ X0)\Rightarrow((r2_matrix10 \\ &X1\ X2)\Rightarrow(r2_matrix10\ (k2_matrix10\ X0\ X2)\ (k2_matrix10\ X0\ X1)))) \end{aligned}$$