

t5_matrix_1
(TMKkPbJ91xRGLLeS7XPnBAqikw67SjCsCTj)

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Let $v1_matrix_1 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ 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 $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg(v1_xboole_0 X0) \wedge ((X0 \neq X1) \wedge (v1_xboole_0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \neg(X0 \in X1) \wedge (v1_xboole_0 X1) \quad (2)$$

Assume the following.

$$\exists X0. v1_xboole_0 X0 \quad (3)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (v1_xboole_0 (k10_xtuple_0 X0)) \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ ((v1_matrix_1 X0) \Leftrightarrow (\exists X1. (v7_ordinal1 X1) \wedge (\forall X2. \\ \neg(X2 \in k10_xtuple_0 X0) \wedge (\forall X3. ((v1_relat_1 X3) \wedge ((v1_funct_1 \\ X3) \wedge (v1_finseq_1 X3))) \Rightarrow (\neg(X3 = X2) \wedge (k3_finseq_1 X3 = X1)))))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (v7_ordinal1 X0) \quad (7)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (v1_relat_1 X0) \quad (8)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Rightarrow(v1_funct_1 X0) \quad (9)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge(v1_xboole_0 X0))\Rightarrow((v1_relat_1 X0)\wedge(v1_finseq_1 X0)) \quad (10)$$

Theorem 1 $v1_matrix_1 k1_xboole_0$.