

t29_abcmiz_1 (TMNgr-
WsZ9RM7ZFxg2gjc8qDvGRftZGE7xWS)

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Let $k2_pre_poly : \iota \Rightarrow \iota$ be given. Let $k2_abcmiz_1 : \iota$ be given. Let $k4_abcmiz_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k6_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m1_finseq_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_funct_1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (3)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (k4_finseq_1 X0 = k9_xtuple_0 X0) \quad (4)$$

Assume the following.

$$\forall X0. k2_pre_poly X0 = k6_finseq_1 X0 \quad (5)$$

Assume the following.

$$\forall X0. \exists X1. (m1_finseq_1 X1 X0) \wedge ((v1_relat_1 X1) \wedge (v4_relat_1 X1 k5_numbers) \wedge (v5_relat_1 X1 X0) \wedge ((v1_funct_1 X1) \wedge ((v1_xboole_0 X1) \wedge ((v1_finset_1 X1) \wedge (v1_finseq_1 X1)))))) \quad (6)$$

Assume the following.

$$m1_finseq_2 \ k4_abcmiz_1 \ k2_abcmiz_1 \quad (7)$$

Assume the following.

$$\forall X0. k6_finseq_1 \ X0 = k1_xboole_0 \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_finseq_2 \ X0 \ k2_abcmiz_1) \Rightarrow ((X0 = k4_abcmiz_1) \Leftrightarrow \\ (\forall X1. (m2_finseq_1 \ X1 \ k2_abcmiz_1) \Rightarrow ((X1 \in X0) \Leftrightarrow ((v2_funct_1 \\ X1) \wedge (\forall X2. (v7_ordinal1 \ X2) \Rightarrow ((X2 \in k4_finseq_1 \ X1) \Rightarrow (r1_tarski \\ (k1_xtuple_0 \ (k1_funct_1 \ X1 \ X2)) \ (k2_relset_1 \ k2_abcmiz_1 \ (k5_relat_1 \\ X1 \ X2)))))))))) \quad (9) \end{aligned}$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k9_xtuple_0 \ X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. k4_tarski \ X2 \ X3 \in X0)) \quad (10)$$

Assume the following.

$$\forall X0. ((v1_xboole_0 \ X0) \wedge ((v1_relat_1 \ X0) \wedge (v1_funct_1 \ X0))) \Rightarrow ((v1_relat_1 \ X0) \wedge ((v1_funct_1 \ X0) \wedge (v2_funct_1 \ X0))) \quad (11)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (v1_relat_1 \ X0) \quad (12)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (v1_funct_1 \ X0) \quad (13)$$

Assume the following.

$$\forall X0. ((v1_relat_1 \ X0) \wedge (v1_xboole_0 \ X0)) \Rightarrow ((v1_relat_1 \ X0) \wedge (v1_finseq_1 \ X0)) \quad (14)$$

Theorem 1 $k2_pre_poly \ k2_abcmiz_1 \in k4_abcmiz_1$.