

t4_cayley (TM- cHjzMbH7xnGNgDE2mRFmhYjghmzWvLUJu)

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Let $k1_cayley : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$np_1 = k1_tarski k1_xboole_0 \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(X1 \in k1_cayley X0) \Rightarrow ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 X0 X0) \wedge ((v3_funct_2 X1 X0 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))) \quad (3)$$

Assume the following.

$$\forall X0.\exists X1.(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))) \wedge ((v1_relat_1 X1) \wedge ((v4_relat_1 X1 X0) \wedge ((v5_relat_1 X1 X0) \wedge ((v1_funct_1 X1) \wedge ((v1_partfun1 X1 X0) \wedge ((v1_funct_2 X1 X0 X0) \wedge (v3_funct_2 X1 X0 X0))))))) \quad (4)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarski X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0. k1_cayley\ X0 = \text{ReplSep } (\text{toset } (\lambda X1 : \iota. (v1_funct_1 \\ X1) \wedge ((v1_funct_2\ X1\ X0\ X0) \wedge ((v3_funct_2\ X1\ X0\ X0) \wedge (m1_subset_1 \\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X0)))))) (\lambda X1 : \iota. \text{True}) (\\ \lambda X1 : \iota. X1) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. (v1_xboole_0\ X0) \Rightarrow (\forall X2. (m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1))) \Rightarrow (v1_xboole_0\ X2)) \quad (8)$$

Theorem 1 $k1_cayley\ k1_xboole_0 = np_1$.