

t3_cayley
(TMc3y3k77TGxnA6HuxvY1FH7zWHMHZEK28c)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_cayley : \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k12_matrix_2 : \iota \Rightarrow \iota$ 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. Assume the following.

$$\forall X0. \forall X1. (X1 \in k1_cayley X0) \Rightarrow ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 X0 X0) \wedge ((v3_funct_2 X1 X0 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))))))) \quad (1)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (X1 = k12_matrix_2 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (k2_finseq_1 X0) (k2_finseq_1 X0)) \wedge ((v3_funct_2 X2 (k2_finseq_1 X0) (k2_finseq_1 X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (k2_finseq_1 X0) (k2_finseq_1 X0)))))))))) \quad (2)$$

Assume the following.

$$\forall X0. k1_cayley X0 = ReplSep (toset (\lambda X1 : \iota. (v1_funct_1 X1) \wedge ((v1_funct_2 X1 X0 X0) \wedge ((v3_funct_2 X1 X0 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))))))) (\lambda X1 : \iota. True) (\lambda X1 : \iota. X1) \quad (3)$$

Theorem 1

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (k1_cayley (k2_finseq_1 X0) = k12_matrix_2 X0)$$