

t22_altcat_1
(TMHnJdHy6t3e9rb9nCk961kvM9YtEL548U1)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v12_altcat_1 : \iota \Rightarrow o$ be given. Let $l2_altcat_1 : \iota \Rightarrow o$ be given. Let $v14_altcat_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_altcat_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k8_altcat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_zfmisc_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v12_altcat_1 X0) \wedge (l2_altcat_1 X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (k8_altcat_1 X0 X1 \in k1_altcat_1 X0 X1 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1.(v1_zfmisc_1 X1) \Rightarrow ((X0 \in X1) \Rightarrow (X1 = k1_tarski X0)) \quad (2)$$

Assume the following.

$$\forall X0.v1_zfmisc_1 (k1_tarski X0) \quad (3)$$

Assume the following.

$$\forall X0.(l2_altcat_1 X0) \Rightarrow ((v14_altcat_1 X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (v1_zfmisc_1 (k1_altcat_1 X0 X1 X1)))) \quad (4)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v12_altcat_1 X0) \wedge (l2_altcat_1 X0))) \Rightarrow ((v14_altcat_1 X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (k1_altcat_1 X0 X1 X1 = k1_tarski (k8_altcat_1 X0 X1))))$$