

t1_substut1
(TMR3XNV4Y3FTdG9MTTMcAz3TKszxw1jccU9)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_substut1 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k2_substut1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge ((v5_relat_1 X2 X0) \wedge (v1_funct_1 X2))) \Rightarrow ((X1 \in k9_xtuple_0 X2) \Rightarrow (k1_funct_1 X2 X1 \in X0)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_qc_lang1 X0) \wedge (m1_subset_1 X1 (k1_substut1 X0))) \Rightarrow ((v1_funct_1 (k2_substut1 X0 X1)) \wedge (m1_subset_1 (k2_substut1 X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 (k3_qc_lang1 X0) (k3_qc_lang1 X0)))))) \quad (2)$$

Assume the following.

$$\forall X0. (m1_qc_lang1 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_substut1 X0)) \Rightarrow (k2_substut1 X0 X1 = X1)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow ((v4_relat_1 X2 X0) \wedge (v5_relat_1 X2 X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow (v1_relat_1 X2) \quad (5)$$

Theorem 1

$$\forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.\forall X2.(m1_subset_1\ X2\ (k1_subst1\ X0)) \Rightarrow ((X1 \in k9_xtuple_0\ X2) \Rightarrow (k1_funct_1\ X2\ X1 \in k3_qc_lang1\ X0)))$$