

t60_group_6
(TMM16B5N8RKY5gjHk5KR4UuGHzcipGXF1Y)

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Let $v1_funct.1 : \iota \Rightarrow o$ be given. Let $v1_funct.2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ 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 $v3_funct.2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_relset.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_funct.1 : \iota \Rightarrow o$ be given. Let $v1_relat.1 : \iota \Rightarrow o$ be given. Let $v5_relat.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_funct.2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_relat.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.((v1_relat.1 X1) \wedge (v5_relat.1 X1 X0)) \Rightarrow (v2_funct.2 X1 X0) \Leftrightarrow (k2_relset.1 X0 X1 = X0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset.1 X2 (k1_zfmisc.1 (k2_zfmisc.1 X0 X1))) \Rightarrow (((v1_funct.1 X2) \wedge (v2_funct.1 X2) \wedge (v2_funct.2 X2 X1))) \Rightarrow ((v1_funct.1 X2) \wedge (v3_funct.2 X2 X0 X1))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset.1 X2 (k1_zfmisc.1 (k2_zfmisc.1 X0 X1))) \Rightarrow (((v1_funct.1 X2) \wedge (v3_funct.2 X2 X0 X1)) \Rightarrow ((v1_funct.1 X2) \wedge ((v2_funct.1 X2) \wedge (v2_funct.2 X2 X1)))) \quad (3)$$

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

$$\forall X0.\forall X1.\forall X2.(((v1_funct.1 X2) \wedge ((v1_funct.2 X2 X0 X1) \wedge (m1_subset.1 X2 (k1_zfmisc.1 (k2_zfmisc.1 X0 X1)))))) \Rightarrow ((v3_funct.2 X2 X0 X1) \Leftrightarrow ((k2_relset.1 X1 X2 = X1) \wedge (v2_funct.1 X2)))$$