# t6_abcmiz_0 (TMbds57ZpT6KNxbNEkgbqV9ewKs9EHp3mut)

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Let $l1\_abcmiz\_0 : \iota \Rightarrow o$ be given. Let $g1\_abcmiz\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_abcmiz\_0 : \iota \Rightarrow \iota$ be given. Let $u2\_abcmiz\_0 : \iota \Rightarrow \iota$ be given. Let $v6\_abcmiz\_0 : \iota \Rightarrow o$ 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 $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_abcmiz\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ X0\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0))))) \Rightarrow (\forall X2.\forall X3.(g1\_abcmiz\_0\ X0\ X1 = g1\_abcmiz\_0\ X2\ X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \tag{1}$$

Assume the following.

$$\forall X0.(l1\_abcmiz\_0\ X0) \Rightarrow ((v1\_funct\_1\ (u2\_abcmiz\_0\ X0)) \wedge ((v1\_funct\_2\ (u2\_abcmiz\_0\ X0)\ (u1\_abcmiz\_0\ X0)\ (u1\_abcmiz\_0\ X0)) \wedge (m1\_subset\_1\ (u2\_abcmiz\_0\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_abcmiz\_0\ X0)\ (u1\_abcmiz\_0\ X0)))))) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_abcmiz\_0\ X0) \Rightarrow ((v6\_abcmiz\_0\ X0) \Leftrightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_abcmiz\_0\ X0)) \Rightarrow (k1\_abcmiz\_0\ X0\ X1 \neq X1))) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_abcmiz\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_abcmiz\_0\ X0)) \Rightarrow (k1\_abcmiz\_0\ X0\ X1 = k1\_funct\_1\ (u2\_abcmiz\_0\ X0)\ X1)) \tag{4}$$

**Theorem 1**

$$\forall X0.(l1\_abcmiz\_0\ X0) \Rightarrow (\forall X1.(l1\_abcmiz\_0\ X1) \Rightarrow (((g1\_abcmiz\_0\ (u1\_abcmiz\_0\ X0)\ (u2\_abcmiz\_0\ X0) = g1\_abcmiz\_0\ (u1\_abcmiz\_0\ X1)\ (u2\_abcmiz\_0\ X1)) \wedge (v6\_abcmiz\_0\ X0)) \Rightarrow (v6\_abcmiz\_0\ X1)))$$