t4_tex_2 (TMWYTmm3qkSHihv2i9eo1s1suCA5VzKt3jq)

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Let $v1\_zfmisc\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v3\_card\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_setfam\_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow ((v3\_card\_1\ (k6\_domain\_1\ X0\ X1)\ np\_\_1) \wedge (m1\_subset\_1\ (k6\_domain\_1\ X0\ X1)\ (k1\_zfmisc\_1\ X0)))) \tag{1}$$

Assume the following.

$$\forall X0.k9\_setfam\_1\ X0 = k1\_zfmisc\_1\ X0 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \Rightarrow ((v1\_subset\_1\ X1\ X0) \Leftrightarrow (X1 \neq X0)) \tag{3}$$

Assume the following.

$$\forall X0.(v3\_card\_1\ X0\ np\_\_1) \Rightarrow ((\neg v1\_xboole\_0\ X0) \wedge (v1\_zfmisc\_1\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (v1\_zfmisc\_1\ X0) \tag{5}$$

Theorem 1

$$\forall X0.(\neg v1\_zfmisc\_1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (v1\_subset\_1\ (k6\_domain\_1\ X0\ X1)\ X0))$$