t65_card_1 (TMc6cNGGSbympz3qP18vuMENXD8z8S71D41)

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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 $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $v1\_zfmisc\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))) \Rightarrow (\neg (v1\_zfmisc\_1\ X1) \wedge (\forall X2.\ (m1\_subset\_1\ X2\ X0) \Rightarrow (X1 \neq k1\_tarski\ X2)))) \quad (1)$$

Assume the following.

$$\forall X0.(v3\_card\_1\ X0\ np\_\_1) \Rightarrow ((\neg v1\_xboole\_0\ X0) \wedge (v1\_zfmisc\_1\ X0)) \quad (2)$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((v3\_card\_1\ X1\ np\_\_1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))) \Rightarrow (\exists X2.(m1\_subset\_1\ X2\ X0) \wedge (X1 = k1\_tarski\ X2)))$$