l55_tmap_1 (TMPT5Ereve9ad4LhzX4wuGr9vXxtsVrWkQM)

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Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ 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 $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.m1\_subset\_1\ k1\_xboole\_0\ (k1\_zfmisc\_1\ X0) \tag{1}$$

Assume the following.

$$v1\_xboole\_0\ k1\_xboole\_0 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))) \Rightarrow (((X1 \neq k1\_xboole\_0) \Rightarrow ((v1\_funct\_2\ X2\ X0\ X1) \Leftrightarrow (X0 = k1\_relset\_1\ X0\ X2))) \wedge ((X1 = k1\_xboole\_0) \Rightarrow ((v1\_funct\_2\ X2\ X0\ X1) \Leftrightarrow (X2 = k1\_xboole\_0)))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (v1\_funct\_1\ X0) \tag{4}$$

Theorem 1

$$\forall X0.(v1\_funct\_1\ k1\_xboole\_0) \wedge ((v1\_funct\_2\ k1\_xboole\_0\ X0\ k1\_xboole\_0) \wedge (m1\_subset\_1\ k1\_xboole\_0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k1\_xboole\_0))))$$