t9_funct_5 (TMaj28s28e1Pp6dUZhQw5nCatfKmgkCovr5)

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Let $k1\_xboole\_0 : \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(k2\_zfmisc\_1\ X0\ X1 = k1\_xboole\_0) \Leftrightarrow ((X0 = k1\_xboole\_0) \vee (X1 = k1\_xboole\_0)) \tag{1}$$

Assume the following.

$$(k9\_xtuple\_0\ k1\_xboole\_0 = k1\_xboole\_0) \wedge (k10\_xtuple\_0\ k1\_xboole\_0 = k1\_xboole\_0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\neg(X0 \neq k1\_xboole\_0) \wedge ((X1 \neq k1\_xboole\_0) \wedge (\neg(k9\_xtuple\_0\ (k2\_zfmisc\_1\ X0\ X1) = X0) \wedge (k10\_xtuple\_0\ (k2\_zfmisc\_1\ X0\ X1) = X1))) \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.(\neg(X0 = k1\_xboole\_0) \wedge ((k2\_zfmisc\_1\ X1\ X0 = k1\_xboole\_0) \wedge (k2\_zfmisc\_1\ X0\ X1 = k1\_xboole\_0))) \Rightarrow ((k9\_xtuple\_0\ (k2\_zfmisc\_1\ X1\ X0) = X1) \wedge (k10\_xtuple\_0\ (k2\_zfmisc\_1\ X0\ X1) = X1))$$