t28_mesfun7c (TMQC5kNYoD751Wqxgg2x2P3Rkocr5erXNJT)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ 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 $k2\_numbers : \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $r2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k25\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3\_membered : \iota \Rightarrow o$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v1\_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(\neg v1\_xboole\_0\ X1) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ k2\_numbers)))) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ k2\_numbers) \Rightarrow (r2\_relset\_1\ X1\ k2\_numbers\ (k2\_partfun1\ X1\ k2\_numbers\ (k25\_valued\_1\ X1\ k2\_numbers\ X2\ X3)\ X0)\ (k25\_valued\_1\ X1\ k2\_numbers\ (k2\_partfun1\ X1\ k2\_numbers\ X2\ X0)\ X3)))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1\ X0\ X1) \tag{2}$$

Assume the following.

$$v3\_membered\ k1\_numbers \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Leftrightarrow (X0 \in k2\_numbers) \tag{4}$$

Assume the following.

$$\forall X0.(v3\_membered\ X0) \Rightarrow (v1\_membered\ X0) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_membered\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (v1\_xcmplx\_0\ X1)) \tag{6}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.\forall X2.((v1\_funct\_1\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k2\_numbers))))\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ k1\_numbers)\Rightarrow(r2\_relset\_1\ X0\ k2\_numbers\ (k2\_partfun1\ X0\ k2\_numbers\ (k25\_valued\_1\ X0\ k2\_numbers\ X2\ X3)\ X1)\ (k25\_valued\_1\ X0\ k2\_numbers\ (k2\_partfun1\ X0\ k2\_numbers\ X2\ X1)\ X3))))$$