t42_mesfunc6 (TMM4wED7WLmchEEfj1tGvAEsCLTVX11r8QF)

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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 $k1\_numbers : \iota$ be given. Let $r2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k47\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_rfunct\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19\_rfunct\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k56\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k26\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((v1\_funct\_1\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k1\_numbers)))) \Rightarrow ((r2\_relset\_1\ X0\ k1\_numbers\ X1\ (k47\_valued\_1\ X0\ k1\_numbers\ k1\_numbers\ (k18\_rfunct\_3\ X0\ X1)\ (k19\_rfunct\_3\ X0\ X1))) \wedge ((r2\_relset\_1\ X0\ k1\_numbers\ (k56\_valued\_1\ X0\ k1\_numbers\ X1)\ (k3\_valued\_1\ X0\ k1\_numbers\ k1\_numbers\ (k18\_rfunct\_3\ X0\ X1)\ (k19\_rfunct\_3\ X0\ X1))) \wedge (r2\_relset\_1\ X0\ k1\_numbers\ (k26\_valued\_1\ X0\ k1\_numbers\ (k18\_rfunct\_3\ X0\ X1)\ np\_\_2)\ (k3\_valued\_1\ X0\ k1\_numbers\ k1\_numbers\ X1\ (k56\_valued\_1\ X0\ k1\_numbers\ X1))))))) \tag{1}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((v1\_funct\_1\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k1\_numbers)))) \Rightarrow (r2\_relset\_1\ X0\ k1\_numbers\ X1\ (k47\_valued\_1\ X0\ k1\_numbers\ k1\_numbers\ (k18\_rfunct\_3\ X0\ X1)\ (k19\_rfunct\_3\ X0\ X1))))$$