t62_rfunct_3 (TMKD3ssaZ2NdsQXAm8UY8sx3nULfESq9kRS)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $r2\_rfunct\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18\_rfunct\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_partfun2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_subset\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ 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. Assume the following.

$$r2\_rfunct\_3\ (k1\_partfun2\ k1\_numbers\ (k2\_subset\_1\ k1\_numbers))\ k1\_numbers \tag{1}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \Rightarrow (\forall X1.\forall X2.(m1\_subset\_1\ X2\ k1\_numbers) \Rightarrow ((r2\_rfunct\_3\ X0\ X1) \Rightarrow (r2\_rfunct\_3\ (k18\_rfunct\_3\ k1\_numbers\ (k15\_valued\_1\ k1\_numbers\ k1\_numbers\ X0\ X2))\ X1))) \tag{2}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_numbers \tag{3}$$

Assume the following.

$$\forall X0.m1\_subset\_1\ (k2\_subset\_1\ X0)\ (k1\_zfmisc\_1\ X0) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))) \Rightarrow ((v1\_funct\_1\ (k1\_partfun2\ X0\ X1)) \wedge (m1\_subset\_1\ (k1\_partfun2\ X0\ X1)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)))) \tag{5}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (r2\_rfunct\_3\ (k18\_rfunct\_3\ k1\_numbers\ (k15\_valued\_1\ k1\_numbers\ k1\_numbers\ (k1\_partfun2\ k1\_numbers\ (k2\_subset\_1\ k1\_numbers))\ X0))\ k1\_numbers)$$