

t63\_rfunct\_1  
(TMcdfMobQaiQ58cXbResuWjJ19UGLCv9B8j)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_rfunct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  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  $k1\_numbers : \iota$  be given. Let  $r2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (\forall X2. ((v1\_funct\_1 \\ & X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 k1\_numbers)))) \Rightarrow \\ & ((r2\_relset\_1 X1 k1\_numbers X2 (k7\_rfunct\_1 X0 X1)) \Leftrightarrow ((k1\_relset\_1 \\ & X1 X2 = X1) \wedge (\forall X3. (m1\_subset\_1 X3 X1) \Rightarrow (((X3 \in X0) \Rightarrow (k1\_funct\_1 \\ & X2 X3 = np\_1)) \wedge (\neg X3 \in X0) \Rightarrow (k1\_funct\_1 X2 X3 = k6\_numbers)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\neg v1\_xboole\_0 np\_1 \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((m1\_subset\_1 X2 \\ & (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1))) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 X0 X1)))) \Rightarrow ((r2\_relset\_1 X0 X1 X2 X3) \Leftrightarrow (X2 = X3)) \end{aligned} \quad (3)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (4)$$

Assume the following.

$$v1\_xboole\_0 k1\_xboole\_0 \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (v1\_funct\_1 (k7\_rfunct\_1 X0 X1)) \wedge (m1\_subset\_1 \\ & (k7\_rfunct\_1 X0 X1) (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 k1\_numbers))) \end{aligned} \quad (6)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1\_xboole\_0 X1) \Rightarrow (\forall X2. (m1\_subset\_1 \\ & X2 X1) \Rightarrow ((X2 \in X0) \Leftrightarrow (k1\_funct\_1 (k7\_rfunct\_1 X0 X1) X2 = np\_1))) \end{aligned}$$