

t64_rfunct_1
(TMULH2RSQu56tX8sGSAMMX4er5deTGFaZvK)

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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 $k6_numbers : \iota$ 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 $np_1 : \iota$ 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.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((m1_subset_1 X2 \\ & (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \wedge (m1_subset_1 X3 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X1)))) \Rightarrow (r2_relset_1 X0 X1 X2 X2) \end{aligned} \quad (3)$$

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

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1_xboole_0 X1) \Rightarrow (\forall X2. (m1_subset_1 \\ & X2 X1) \Rightarrow ((\neg X2 \in X0) \Leftrightarrow (k1_funct_1 (k7_rfunct_1 X0 X1) X2 = k6_numbers))) \end{aligned}$$