

t67_rfunct_1 (TMKb-
NTn2g6QDrGyXYzpjhz4o8v9u3rQUguM)

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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 $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (k1_funct_1 (k7_rfunct_1 X0 X0) X1 = np_1)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(\neg v1_xboole_0 X1) \Rightarrow (\forall X2.(m1_subset_1 X2 X1) \Rightarrow ((\neg X2 \in X0) \Leftrightarrow (k1_funct_1 (k7_rfunct_1 X0 X1) X2 = k6_numbers))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(\neg v1_xboole_0 X1) \Rightarrow (\forall X2.(m1_subset_1 X2 X1) \Rightarrow ((X2 \in X0) \Leftrightarrow (k1_funct_1 (k7_rfunct_1 X0 X1) X2 = np_1))) \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0) \Rightarrow ((m1_subset_1 X1 X0) \Leftrightarrow (X1 \in X0))) \wedge ((v1_xboole_0 X0) \Rightarrow ((m1_subset_1 X1 X0) \Leftrightarrow (v1_xboole_0 X1))) \quad (5)$$

Theorem 1

$$\forall X0.\forall X1.(\neg v1_xboole_0 X1) \Rightarrow (\forall X2.(m1_subset_1 X2 X1) \Rightarrow ((k1_funct_1 (k7_rfunct_1 X0 X1) X2 \neq np_1) \Leftrightarrow (k1_funct_1 (k7_rfunct_1 X0 X1) X2 = k6_numbers)))$$