

t1_arrow
(TMU4v1JECvs4JYn8g3cSDGGLVukSSngeGJ5)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_2 : \iota$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_zfmisc_1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_finset_1 X0) \Rightarrow ((v1_zfmisc_1 X0) \Leftrightarrow (\neg r1_xxreal_0 \quad np_2 (k5_card_1 X0))) \quad (1)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow ((v1_zfmisc_1 X0) \Leftrightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow (\forall X2.(m1_subset_1 X2 X0) \Rightarrow (X1 = X2)))) \quad (2)$$

Assume the following.

$$\forall X0.(\neg v1_zfmisc_1 X0) \Rightarrow (\neg v1_xboole_0 X0) \quad (3)$$

Theorem 1

$$\forall X0.(v1_finset_1 X0) \Rightarrow ((r1_xxreal_0 \quad np_2 (k5_card_1 X0)) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (\neg \forall X2.(m1_subset_1 X2 X0) \Rightarrow (X2 = X1))))$$