

t8_realset1
(TMJfLCWaiP8vwTcZfLQ5JiHDc6kC5kTNZaF)

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Let $v1_zfmisc_1 : \iota \Rightarrow o$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 X0))) \Rightarrow (\neg(v1_zfmisc_1 X1) \wedge (\forall X2. \\ (m1_subset_1 X2 X0) \Rightarrow (X1 \neq k1_tarski X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(\neg v1_zfmisc_1 X0) \Leftrightarrow (\forall X1. \neg v1_xboole_0 (k6_subset_1 X0 (k1_tarski X1))) \quad (2)$$

Assume the following.

$$\forall X0.(v3_card_1 X0 np_1) \Rightarrow ((\neg v1_xboole_0 X0) \wedge (v1_zfmisc_1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(\neg v1_zfmisc_1 X0) \Rightarrow (\neg v1_xboole_0 X0) \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.(\neg v1_zfmisc_1 X0) \Rightarrow (\forall X1.((v3_card_1 X1 np_1) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 X0))) \Rightarrow (\neg v1_xboole_0 (k6_subset_1 X0 X1))) \end{aligned}$$