

t1_rpr_1
(TMGT9fyqNm5snmLUb4xrRvswUp3xGMvSRrS)

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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 $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_zfmisc_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 (k1_tarski X1)) \Leftrightarrow ((X0 = k1_xboole_0) \vee (X0 = k1_tarski X1)) \quad (2)$$

Assume the following.

$$\forall X0. \neg(\neg v1_xboole_0 X0) \wedge ((v1_zfmisc_1 X0) \wedge (\forall X1. X0 \neq k1_tarski X1)) \quad (3)$$

Assume the following.

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\exists X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \wedge (v3_card_1 X1 np_1)) \quad (4)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (5)$$

Assume the following.

$$\forall X0. (v3_card_1 X0 np_1) \Rightarrow ((\neg v1_xboole_0 X0) \wedge (v1_zfmisc_1 X0)) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0))) \Rightarrow (((v3_card_1 X1 np_1) \wedge (m1_subset_1 \\ & X1 (k1_zfmisc_1 X0))) \Leftrightarrow (\forall X2. (r1_tarski X2 X1) \Leftrightarrow ((X2 = k1_xboole_0) \vee \\ & (X2 = X1)))))) \end{aligned}$$