

t6_margrel1 (TMLqHbNmAqyob- Wmys2UikWm9aKVPDnfnbKB)

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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 $k3_margrel1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\neg(X0 \in X1) \wedge ((m1_subset_1 X1 (k1_zfmisc_1 X2)) \wedge (v1_xboole_0 X2)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (6)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\neg v1_xboole_0 (k3_margrel1 X0)) \quad (7)$$

Assume the following.

$$\begin{aligned}
& \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (X1 = k3_margrel1 X0) \Leftrightarrow \\
& (\forall X2. (X2 \in X1) \Leftrightarrow ((r1_tarski X2 (k3_finseq_2 X0)) \wedge (\forall X3. \\
& (m2_finseq_1 X3 X0) \Rightarrow (\forall X4. (m2_finseq_1 X4 X0) \Rightarrow (((X3 \in X2) \wedge \\
& (X4 \in X2)) \Rightarrow (k3_finseq_1 X3 = k3_finseq_1 X4))))))
\end{aligned} \tag{8}$$

Theorem 1

$$\begin{aligned}
& \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. \forall X2. (m1_subset_1 \\
& X2 (k3_margrel1 X0)) \Rightarrow ((r1_tarski X1 X2) \Rightarrow (m1_subset_1 X1 (k3_margrel1 \\
& X0))))
\end{aligned}$$