

t87_finseq_4

(TMdTX5Pb9cMFV69zjsKU5bKubJXHX83FSCS)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_eqrel_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k11_eqrel_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (\neg v1_xboole_0 X1) \Rightarrow (\forall X2. (m1_eqrel_1 \\ & X2 X1) \Rightarrow (\neg (X0 \in X2) \wedge (\forall X3. (m1_subset_1 X3 X1) \Rightarrow (X0 \neq k11_eqrel_1 \\ & X1 X3 X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((\neg v1_xboole_0 X0) \wedge ((m1_subset_1 \\ & X1 X0) \wedge (m1_eqrel_1 X2 X0))) \Rightarrow (m1_subset_1 (k11_eqrel_1 X0 X1 X2) \\ & (k1_zfmisc_1 X0)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow \\ & (\forall X2. (m1_eqrel_1 X2 X0) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 \\ & X0)) \Rightarrow ((X3 = k11_eqrel_1 X0 X1 X2) \Leftrightarrow ((X1 \in X3) \wedge (X3 \in X2)))))) \end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_eqrel_1 X1 X0) \Rightarrow \\ & (\forall X2. \neg (X2 \in X1) \wedge (\forall X3. (m1_subset_1 X3 X0) \Rightarrow (\neg X3 \in X2)))) \end{aligned}$$