

t4_card_fil (TMVb- HDpK4effeUBT4GvsHPtBscBZ4kombYX)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_card_fil : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k9_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (((\neg v1_xboole_0 (k1_tarski X0)) \wedge \\ & (m1_subset_1 (k1_tarski X0) (k1_zfmisc_1 (k1_zfmisc_1 X0)))) \wedge \\ & ((\neg k1_xboole_0 \in k1_tarski X0) \wedge (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ & X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (((X1 \in k1_tarski \\ & X0) \wedge (X2 \in k1_tarski X0)) \Rightarrow (k9_subset_1 X0 X1 X2 \in k1_tarski X0)) \wedge \\ & (((X1 \in k1_tarski X0) \wedge (r1_tarski X1 X2)) \Rightarrow (X2 \in k1_tarski X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0)))) \Rightarrow ((m1_card_fil \\ & X1 X0) \Leftrightarrow ((\neg k1_xboole_0 \in X1) \wedge (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 X0)) \Rightarrow (((X2 \in X1) \wedge \\ & (X3 \in X1)) \Rightarrow (k9_subset_1 X0 X2 X3 \in X1)) \wedge (((X2 \in X1) \wedge (r1_tarski X2 \\ & X3)) \Rightarrow (X3 \in X1)))))) \end{aligned} \quad (3)$$

Theorem 1 $\forall X0. (\neg v1_xboole_0 X0) \Rightarrow (m1_card_fil (k1_tarski X0) X0)$.