

t120_zfmisc_1

(TMQQgjYFxe1gSHfG7f2S5yxNRHDzmug6u27)

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Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (k4_xboole_0 (k2_tarski X0 X1) \\ & X2 = k2_tarski X0 X1) \Leftrightarrow ((\neg X0 \in X2) \wedge (\neg X1 \in X2)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (X2 = k4_xboole_0 X0 X1) \Leftrightarrow (\forall X3. \\ & (X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (\neg X3 \in X1))) \end{aligned} \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \neg(\neg X0 \in X2) \wedge ((\neg X1 \in X2) \wedge (X2 \neq k4_xboole_0 X2 (k2_tarski X0 X1)))$$