

t65_zfmisc_1

(TMcyVeQpxE71szEKEqF15fP7J15uR4cadK6)

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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. Let $k1_xboole_0 : \iota$ be given. Let $k1_tarSKI : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (k4_xboole_0 (k2_tarSKI X0 X1) X2 = k1_xboole_0) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X2)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (k4_xboole_0 (k2_tarSKI X0 X1) X2 = k2_tarSKI X0 X1) \Leftrightarrow ((\neg X0 \in X2) \wedge (\neg X1 \in X2)) \quad (2)$$

Assume the following.

$$\forall X0. k2_tarSKI X0 X0 = k1_tarSKI X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (k4_xboole_0 (k2_tarSKI X0 X1) X2 = k1_tarSKI X0) \Leftrightarrow ((\neg X0 \in X2) \wedge ((X1 \in X2) \vee (X0 = X1))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. k2_tarSKI X0 X1 = k2_tarSKI X1 X0 \quad (5)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \neg (k4_xboole_0 (k2_tarSKI X0 X1) X2 \neq k1_xboole_0) \wedge ((k4_xboole_0 (k2_tarSKI X0 X1) X2 \neq k1_tarSKI X0) \wedge ((k4_xboole_0 (k2_tarSKI X0 X1) X2 \neq k1_tarSKI X1) \wedge (k4_xboole_0 (k2_tarSKI X0 X1) X2 \neq k2_tarSKI X0 X1)))$$