

t16_xboole_1

(TMTryVNz2sUoFiEtH4L9oxUrTdDKyVXVywk)

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Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (X2 = k3_xboole_0 X0 X1) \Leftrightarrow (\forall X3. \\ (X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (X3 \in X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k3_xboole_0 X0 X1 = k3_xboole_0 X1 X0 \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. \forall X2. k3_xboole_0 (k3_xboole_0 X0 \\ X1) X2 = k3_xboole_0 X0 (k3_xboole_0 X1 X2) \end{aligned}$$