

t26_xboole_1

(TMPS58HPYgMNoGynpcdif4VUTqjEbHyFQpf)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. 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.

$$\begin{aligned} \forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow \\ (X2 \in X1)) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (r1_tarski X0 X1) \Rightarrow (r1_tarski \\ (k3_xboole_0 X0 X2) (k3_xboole_0 X1 X2)) \end{aligned}$$