

t64_xboole_1
(TMHH2nRMh9BNbgS8JtRE1Qw1gqZoTLmCRpk)

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Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (\neg(\neg r1_xboole_0 X0 X1) \wedge (\forall X2. \neg(X2 \in X0) \wedge (X2 \in X1))) \wedge (\neg(\exists X2. (X2 \in X0) \wedge (X2 \in X1)) \wedge (r1_xboole_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarSKI X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. \forall X3. ((r1_tarSKI X0 X1) \wedge ((r1_tarSKI X2 X3) \wedge (r1_xboole_0 X1 X3))) \Rightarrow (r1_xboole_0 X0 X2)$$