

t6\_xboole\_0  
(TMT719gKMCmts6Gq7qKkr9piZnQpdrBGQtX)

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Let  $r2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (r2\_xboole\_0 X0 X1) \Leftrightarrow ((r1\_tarski X0 X1) \wedge (X0 \neq X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (r2\_xboole\_0 X0 X1) \Rightarrow (\neg r2\_xboole\_0 X1 X0) \quad (3)$$

**Theorem 1**

$$\forall X0. \forall X1. \neg (r2\_xboole\_0 X0 X1) \wedge (\forall X2. \neg (X2 \in X1) \wedge (\neg X2 \in X0))$$