

t44\_xboole\_1

(TMHpR3qJsfnim8FJN6qEVGPPQYLB7VevJ8K)

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Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. k4\_xboole\_0 (k4\_xboole\_0 X0 X1) X2 = k4\_xboole\_0 X0 (k2\_xboole\_0 X1 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (k4\_xboole\_0 X0 X1 = k1\_xboole\_0) \Leftrightarrow (r1\_tarski X0 X1) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. (r1\_tarski (k4\_xboole\_0 X0 X1) X2) \Rightarrow (r1\_tarski X0 (k2\_xboole\_0 X1 X2))$$