

t66_xboole_1 (TM-
PRVCRtt7YDZPCmPBkY9h9eVekDRVXP4Sn)

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Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. k3_xboole_0 X0 X0 = X0 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_xboole_0 X0 X1) \Leftrightarrow (k3_xboole_0 X0 X1 = k1_xboole_0) \quad (2)$$

Theorem 1

$$\forall X0. (\neg(\neg r1_xboole_0 X0 X0) \wedge (X0 = k1_xboole_0)) \wedge (\neg(X0 \neq k1_xboole_0) \wedge (r1_xboole_0 X0 X0))$$